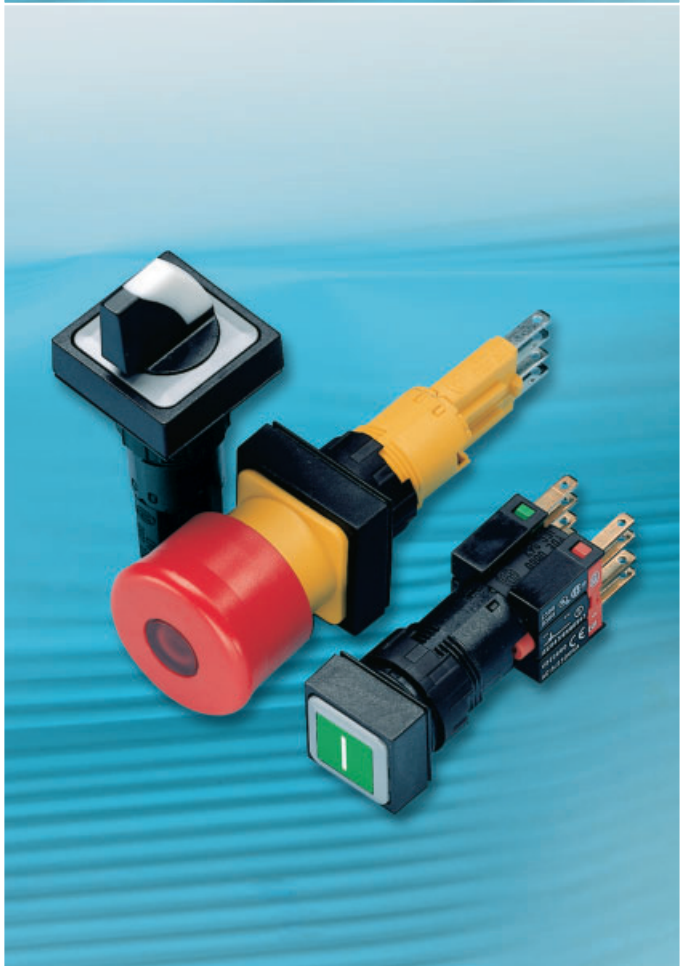
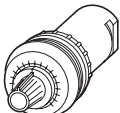


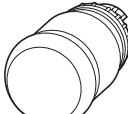
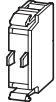




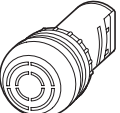


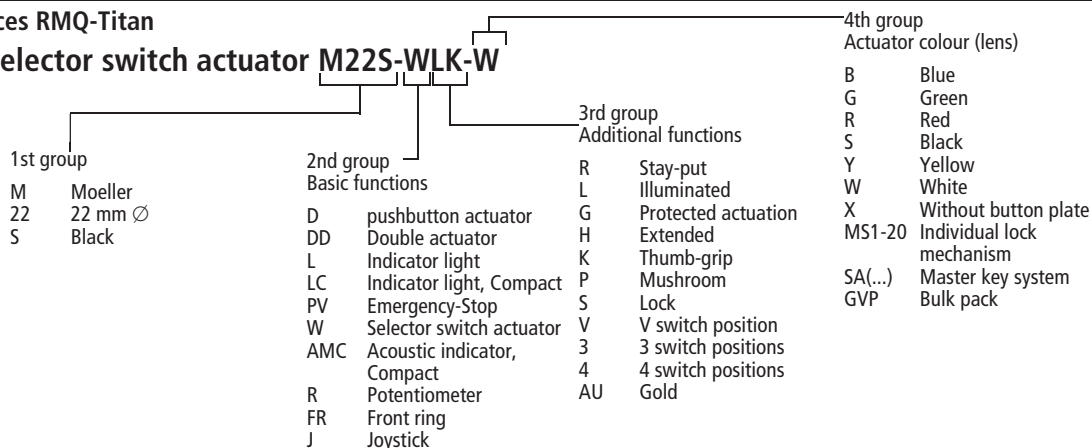
Moeller HPL0211-2004/2005














RMQ-Titan®

Grid dimensions: 30 × 40/30 × 50 mm
Mounting diameter: 22.3 mm

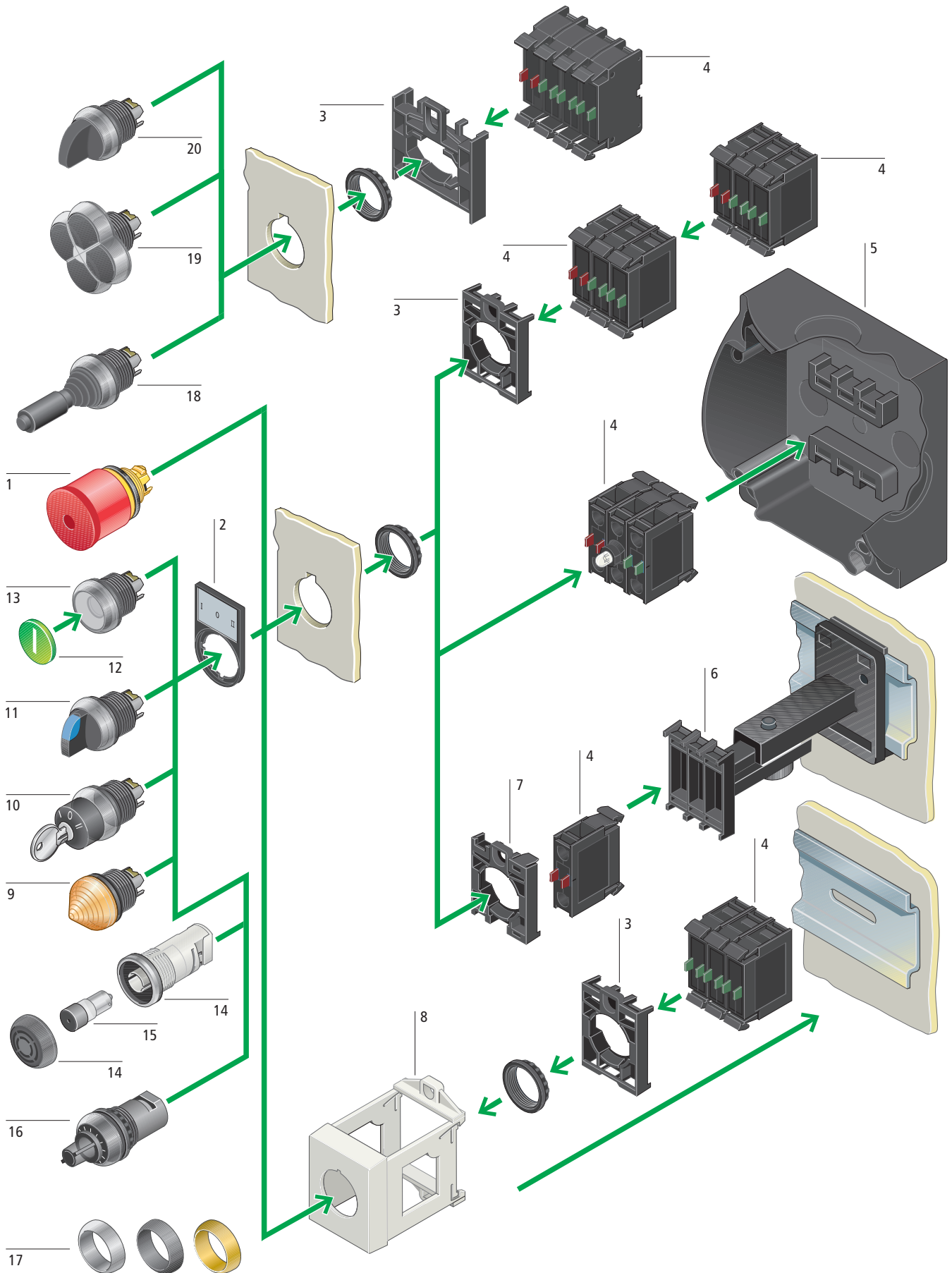
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|  | | Illuminated pushbuttons | 2/22 |
| Complete units for surface mounting | 2/7 | Flush | 2/22 |
|  | | Extended | 2/23 |
| Complete FAK units for surface mounting | 2/8 | Illuminated selector switch actuators | 2/24 |
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Key to type references RMQ-Titane.g. illuminated selector switch actuator **M22S-WLK-W**



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| RMQ16 | | SL signal towers | | |
|---|--|---|-------------------------------|------|
| Grid dimensions: 18 × 18 mm/25 × 25 mm Mounting diameter: 16.2 mm | | | | |
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| | | |
|--|--|---|
| <p>Emergency-Stop actuators 1</p> <p>Tamper-proof according to ISO 13850/EN 418</p> <p>Can be secured by sealable shroud</p> <p>Legend plates with and without inscription</p> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;">  <p>BAUART GEPRÜFT TYPE APPROVED</p> </div> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;">  </div> <p>→ 2/10</p> <p>Label mounts 2</p> <p>For insert plates</p> <p>Colour: black</p> <p>Insert plates, aluminium-coloured, with and without inscription, can be engraved</p> <p>→ 2/29</p> <p>Fixing adapters 3</p> <p>For front mounting</p> <p>For contact and LED elements</p> <p>→ 2/25</p> <p>Contact elements 4</p> <p>Make contacts and break contacts</p> <p>Universal contacts suitable for use with electronic devices</p> <p>Positive opening safety function according to IEC/EN 60947-5-1</p> <p>Maximum 2 levels, each with 3 contact elements</p> <p>→ 2/25</p> <p>LED elements 4</p> <p>Voltage range: 12 – 30 V AC/DC 85 – 264 V AC</p> <p>→ 2/26</p> <p>Enclosures 5</p> <p>Surface mounting enclosures IP67 up to 6 mounting locations</p> <p>Flush mounting panel, IP54, up to 6 mounting locations</p> <p>Shrouds IP40 for flush mounting panels</p> <p>→ 2/38</p> <p>Telescopic clip 6</p> <p>For mounting depth compensation when rear mounting devices in CI enclosures, CI-K enclosures and cabinets</p> <p>→ 2/40</p> | <p>Centring adapter 7</p> <p>For centring of actuator and indicator elements when using telescopic clip</p> <p>→ 2/40</p> <p>IVS top-hat rail adapter 8</p> <p>For direct mounting on top-hat rail to IEC/EN 60175</p> <p>→ 2/40</p> <p>Indicator lights 9</p> <p>Flush and conical versions</p> <p>Colours: white, green, red, yellow, blue</p> <p>→ 2/21</p> <p>Key-operated actuators 10</p> <p>2 and 3 positions</p> <p>Programmable stay-put/spring-return function and key withdrawability</p> <p>Suitable for master key systems</p> <p>→ 2/18</p> <p>Selector switch actuators 11</p> <p>2 and 3 positions</p> <p>With rotary head, thumb-grip</p> <p>Programmable stay-put/spring-return function</p> <p>Illuminated selector switch actuators with transparent thumb-grip</p> <p>Colours: white, green, red, yellow, blue</p> <p>→ 2/17</p> <p>Button plates/Button lenses 12</p> <p>Laser inscription for pushbutton actuators and mushroom actuators</p> <p>Button lenses for illuminated pushbuttons and indicator lights, flat</p> <p>With standard texts and symbols or customised inscription</p> <p>→ 2/30</p> <p>Pushbutton actuators 13</p> <p>Spring-return and stay-put</p> <p>Flush and extended</p> <p>With and without guard ring</p> <p>Mushroom actuators</p> <p>Double actuators</p> <p>Colours: white, green, red, yellow, blue, black</p> <p>Illuminated pushbuttons</p> <p>Colours: white, green, red, yellow, blue</p> <p>→ 2/14</p> | <p>Acoustic indicator 14</p> <p>Degree of protection IP40</p> <p>Without buzzer</p> <p>→ 2/21</p> <p>Buzzer 15</p> <p>Continuous tone, pulsed tone</p> <p>18 – 30 V AC/DC</p> <p>→ 2/21</p> <p>Potentiometers 16</p> <p>Resistance ratings from 1 to 470 kΩ</p> <p>3 individual connections</p> <p>With screw terminals</p> <p>→ 2/21</p> <p>Front rings 17</p> <p>– Titanium</p> <p>– Black</p> <p>– 24 carat gold can only be ordered via M22-Combination</p> <p>→ 2/40</p> <p>Joystick 18</p> <p>4 positions</p> <p>→ 2/20</p> <p>4-way pushbutton 19</p> <p>4 positions</p> <p>Pushbutton actuators, spring-return</p> <p>→ 2/20</p> <p>4-way selector switch actuators 20</p> <p>4 positions</p> <p>With rotary head or thumb-grip</p> <p>Stay-put function 0-1-0-2-0-3-0-4</p> <p>→ 2/17</p> |
|--|--|---|

Product features

- Snap-fitting modular system
- Front ring titanium, black or gold
- Mounting diameter: 22.3 mm
- Minimum grid dimension: 30 × 40 mm
- Degree of protection: minimum IP66
- Up to 6 contacts per mounting location
- For switching differing potentials
- Approved throughout the world

Control Circuit Devices
RMQ-Titan



2/6 Complete Units for Flush Mounting RMQ-Titan

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
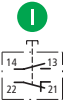




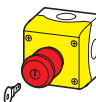

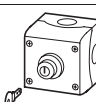

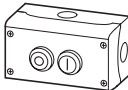
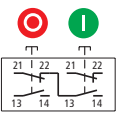
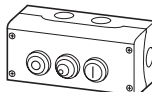
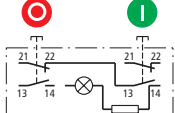
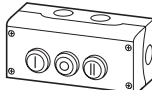
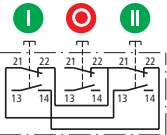
Control Circuit Devices
RMQ-Titan



| Button plate | | Contacts | | Circuit symbol | Front ring: titanium Type Article no. | Price See Price List | Std. pack |
|--|------|----------|-------|----------------|---|----------------------------|-----------|
| Pushbuttons, IP67, IP69K | | | | | | | |
| Flush actuator | | 1 M | - | | M22-D-G-X1/K10 216512 | | 5 off |
| | | - | 1 B ⊕ | | M22-D-R-X0/K01 216510 | | 5 off |
| Double actuator with white LED element lens, IP66 | | | | | | | |
| 85 – 264 V AC | | 1 M | 1 B ⊕ | | M22-DDL-GR-X1/X0/K11/230-W 216509 | | 5 off |
| Selector switch actuators, IP66 | | | | | | | |
| Thumb-grip, black Stay-put/spring return function convertible using M22-XC-Y coding adapters Switch positions 0, I and II correspond with the position of the actuator as viewed from the front. | | | | | | | |
| | | | | | | | |
| 2 positions, stay-put | - | 1 M | - | | M22-WRK/K10 216518 | | 5 off |
| 3 positions, stay-put | - | 2 M | - | | M22-WRK3/K20 216520 | | 5 off |
| Key-operated buttons, IP66 | | | | | | | |
| Stay-put/spring return function and key withdrawability convertible using M22-XC-... coding adapters 2 positions, stay-put MS1 lock mechanism, with 1 key | | | | | | | |
| | | 1 M | 1 B ⊕ | | M22-WRS/K11 216517 | | 5 off |
| Customised complete units | | | | | | | |
| To order use F0315. (*) = Freely selectable customer identification or stock no.; max. 10 characters. | | | | | | | |
| | - | - | - | - | M22-COMBINATION-* 228298 | | 1 off |

Notes Front ring: gold-plated, → 2/40

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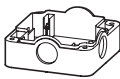
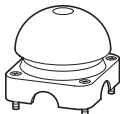
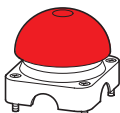
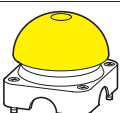
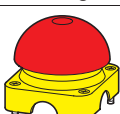
| | Number of locations | Contacts M = Make, B = Break ⊕ = Positive opening safety function to IEC/EN 60947-5-1 | Circuit symbol | Colour enclosure top | Front ring: titanium Type Article no. | Price See Price List | Std. pack |
|--|---------------------|---|---|----------------------|--|----------------------|-----------|
| Qty. | | | | | | | |
| Pushbuttons, IP67, IP69K | | | | | | | |
| Flush actuator  | 1 | 1 M 1 B ⊕ |  | ● RAL 7035 | M22-D-G-X1/KC11/I 216522 | | 1 off |
| | 1 | 1 M 1 B ⊕ |  | ● RAL 7035 | M22-D-R-X0/KC11/I 216521 | | 1 off |
| Emergency-Stop buttons, IP66, IP69K | | | | | | | |
| Tamper-proof according to ISO 13850/EN 418 Pull to release  | – | – 2 B ⊕ |  | ● RAL 3000 | M22-PV/KC02/IY 216524 | | 1 off |
| | – | 1 M 1 B ⊕ |  | ● RAL 3000 | M22-PV/KC11/IY 216525 | | 1 off |
| Emergency-Stop key-release mushroom button, IP67, IP69K | | | | | | | |
| With 1 key Lock mechanism MS1  | 1 | 1 M 1 B ⊕ |  | ● RAL 1004 | M22-PVS/KC11/IY 216523 | | 1 off |
| Key-operated button, IP66 | | | | | | | |
| Stay-put/spring return function and key withdrawability convertible using M22-XC-... coding adapters With 1 key 2 positions, stay-put Lock mechanism MS1  | 1 | 1 M 1 B ⊕ |  | ● RAL 7035 | M22-WRS/KC11/I 216526 | | 1 off |
| Two-way pushbutton stations, IP67, IP69K | | | | | | | |
| Without indicator light  | 2 | 2 M 2 B ⊕ |  | ● RAL 7035 | M22-I2-M1 216529 | | 1 off |
| With indicator light, white LED element 85 – 264 V AC  | 2 | 2 M 2 B ⊕ |  | ● RAL 7035 | M22-I3-M2 216533 | | 1 off |
| Three-way pushbutton station, IP67, IP69K | | | | | | | |
|  | 3 | 3 M 3 B ⊕ |  | ● RAL 7035 | M22-I3-M1 216532 | | 1 off |





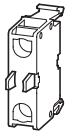


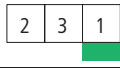

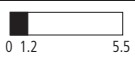
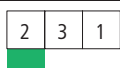
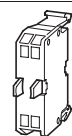


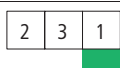

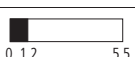
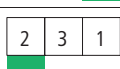
| | Contacts M = Make, B = Break ⊕ = Positive opening safety function to IEC/EN 60947-5-1 | Colour of mushroom head, indicator light | Type Article no. | Price See Price List | Std. pack | Approval mark | |
|---|--|--|---------------------|-----------------------------|-----------------|---|---|
| Foot and palm switches, IP67, IP69K | | | | | | | |
| Spring-return Enclosure base: black (RAL 9005) Enclosure top: light grey (RAL 7035) | 1 M 1 B ⊕ | | RAL 9004 | ● FAK-S/KC11/I 229749 | 1 off | BAUART GEPRÜFT TYPE APPROVED | |
| | 1 M 1 B ⊕ | | RAL 3000 | ● FAK-R/KC11/I 229746 | 1 off | | |
| Stay-put Pull to release Emergency-stop actuator tamper-proof to ISO 13850/EN 418 Enclosure base: black (RAL 9005) Enclosure top: yellow (RAL 1004) | – 1 B ⊕ | | RAL 3000 | ● FAK-R/V/KC01/IY 229747 | 1 off | | |
| | 1 M 1 B ⊕ | | RAL 3000 | ● FAK-R/V/KC11/IY 229748 | 1 off | | |
| | – 2 B ⊕ | – | RAL 3000 | ● FAK-R/V/KC02/IY 256790 | 1 off | | |
| Foot and palm switch, IP65 | | | | | | | |
| Enclosure base grey Enclosure top yellow Mushroom head red | | | | | | | |
| Stay-put Release by button on the side For Emergency-Stop applications according to ISO 13850 | 1 M 1 B ⊕ | | RAL 3000 | ● FAK-R/V/KC11A/I 001475 | 1 off | | |
| | | | | | | | |
| Indicator lights, conical BA 9s, IP67, IP69K | | | | | | | |
| Can be fitted in M20/M25 knockout in base For filament and neon bulbs up to 2.4 W | | | | | | | |
| | – | – | – | ● L-R 208689 | 1 off | – | |
| | – | – | – | ● L-G 208690 | | – | |
| | – | – | – | ● L-Y 208691 | | – | |
| | – | – | – | ○ L-W 208692 | | – | |
| M20 metric cable glands according to EN 50262 | | | | | | | |
| <ul style="list-style-type: none"> • With lock nut and built-in strain relief • IP68, IP69K, polyamide halogen free • External diameter of cable 6 – 13 mm | | | | | | | |
| | – | – | – | – | V-M20 206910 | 20 off | – |

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| Colour | Function: └ = Stay-put ┘ = Spring-return | Type Article no. | Price See Price List | Std. pack |
|---|--|------------------------------------|----------------------------|-----------|
| Customised complete units | | | | |
| (*) = Freely selectable customer identification or stock no.; max. 10 characters. An order consists of: enclosure base, enclosure top and contact elements | | FAK-COMBINATION-* 229758 | | 1 off |
| Enclosure base | | | | |
| For up to 3 contact elements | | | | |
|  | Black | - | FAK-IU 229753 | 1 off |
| Enclosure tops | | | | |
|  | Grey, mushroom head black | ┘ | FAK-S 095540 | 1 off |
|  | Grey, mushroom head red | ┘ | FAK-R 071810 | |
|  | Grey, mushroom head yellow | ┘ | FAK-Y 229754 | |
|  | Yellow, mushroom head red | └ | FAK-R/V/Y 229755 | |

Control Circuit Devices
RMQ-Titan



| Contacts M = Make, B = Break ⊕ = Positive opening safety function to IEC/EN 60947-5-1 | Circuit symbol | Contact travel diagram, stroke in connection with front element | Assignment ¹⁾ | Type Article no. | Price See Price List | Std. pack | |
|---|--------------------------|--|---|---|--|----------------------------|--------|
| | | mm | | | | | |
| Contact elements | | | | | | | |
| Base fixing | | | | | | | |
|  | Screw terminals | 1 M - |  |  |  | M22-KC10 216380 | 20 off |
| | | - 1 B ⊕ |  |  |  | M22-KC01 216382 | |
|  | Cage Clamp ²⁾ | 1 M - |  |  |  | M22-CKC10 216386 | |
| | | - 1 B ⊕ |  |  |  | M22-CKC01 216387 | |

Notes 1) Assignment: Assignment of the fixing adapter with sequence numbers according to EN 50013

$\begin{matrix} |_{xy} \\ \backslash_{xy} \end{matrix}$ x = Sequence number on fixing adapter
y = Function number on contact element

2) Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/Minden, Germany



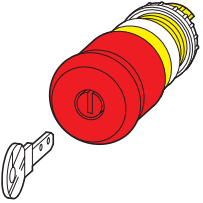
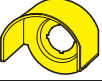

| | | Contacts M = Make, B = Break ⊕ = Positive opening safety function to IEC/EN 60947-5-1 | Circuit symbol | Colour of mushroom head (yellow base) | Type Article no. | Price See Price List | Std. pack | |
|--|--|---|-------------------|---|---------------------|-----------------------------|------------------------------|-------|
| Complete units for front fitting¹⁾ | | | | | | | | |
| | Emergency-Stop actuators | Tamper-proof according to ISO 13850/EN 418 Pull to release Max. contacts to be fitted together: 4 x M22-(C)K... IP66, IP69K | – | 1 B ⊕ | | ● RAL 3000 | M22-PV/K01 216515 | 5 off |
| | – | – | 1 M | 1 B ⊕ | | ● RAL 3000 | M22-PV/K11 216516 | |
| | Emergency-Stop key-release mushroom button | Tamper-proof according to ISO 13850/EN 418 With one key, MS1 individual lock mechanisms, not suitable for master key systems Release by using the key IP67, IP69K | – | 1 B ⊕ | | ● RAL 3000 | M22-PVS/K01 216514 | |
| Emergency-Stop actuators¹⁾ | | | | | | | | |
| | Non-illuminated, pull to release, IP66, IP69K | – | – | ● | RAL 3000 | M22-PV 216876 | 5 off | |
| | | – | – | – | | M22-PV-GVP 216877 | 50 off | |
| | Illuminated, pull to release, IP66, IP69K Non-illuminated, turn to release, IP66, IP69K Illuminated, turn to release, IP66, IP69K | – | – | ● | RAL 3000 | M22-PVL 216878 | 5 off | |
| | | – | – | – | | M22-PVT 263467 | | |
| | | – | – | – | | M22-PVLT 263469 | | |
| Emergency-Stop/Emergency-Halt actuators | | | | | | | | |
| | Non-illuminated, pull to release, IP66, IP69K Non-illuminated, turn to release, IP66, IP69K Illuminated, pull to release, IP66, IP69K Illuminated, turn to release, IP66, IP69K | – | – | ● | RAL 9005 | M22S-PV 225528 | 5 off | |
| | | – | – | – | | M22S-PVT 271499 | | |
| | | – | – | – | | M22S-PVL 230962 | | |
| | | – | – | – | | M22S-PVLT 271540 | | |

Notes

1)



Moeller HPL0211-2004/2005

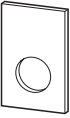
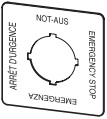


| | | Contacts M = Make, B = Break ⊕ = Positive opening safety function to IEC/EN 60947-5-1 | Circuit symbol | Colour of mushroom head (yellow base) | Type Article no. | Price See Price List | Std. pack |
|---|---------------------------------------|--|-------------------|---|-----------------------|----------------------------|-----------|
| Emergency-Stop key-release mushroom actuators, IP67, IP69K¹⁾ | | | | | | | |
| With 1 key, not suitable for master key systems Release by using the key | | | | | | | |
|  | MS1 individual lock mechanisms | - | - | ● RAL 3000 | M22-PVS 216879 | | 5 off |
| | Individual lock mechanisms MS2 – MS20 | - | - | ● RAL 3000 | M22-PVS-MS* 216880 | | 1 off |
| Guard ring for Emergency-Stop buttons, IP65 | | | | | | | |
| Degree of protection IP65 | | | | | | | |
|  | - | - | - | ● RAL 1004 | M22-XGPV 231273 | | 1 off |
|  | - | - | - | ● RAL 7032 | M22G-XGPV 271610 | | 1 off |

Notes

1)

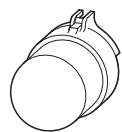




| Inscription | Country code (explanation) | Colour | Type Article no. | Price See Price List | Std. pack | |
|---|-----------------------------|-------------------|---------------------|------------------------|---|---|
| Emergency-Stop labels, IP66 | | | | | | |
| Lettering black | | | | | | |
| 33 × 50 mm  | Not-Aus | D | RAL 1004 | M22-XZK-D99 216471 | 10 off | – |
| | Emergency-Stop | GB | | M22-XZK-GB99 216472 | – | |
| | Arrêt d'urgence | F | | M22-XZK-F99 216473 | – | |
| | EMERGENZA | I | | M22-XZK-I99 216474 | – | |
| | NOODSTOP | NL | | M22-XZK-NL99 216475 | – | |
| | NÖDSTOPP | S | | M22-XZK-S99 216476 | – | |
| | HÄTÄ-SEIS | SF | | M22-XZK-SF99 216477 | – | |
| | NØDSTOP | DK | | M22-XZK-DK99 216478 | – | |
| | With customised inscription | – | | M22-XZK-* 216479 | – | Height of letters: 5 mm Number of lines: up to 2 Characters per line: up to 7 |
| | Blank | – | | M22-XZK 216470 | 25 off | – |
| 50 × 50 mm  | 4 languages | English, German, | M22-XYK1 216484 | 10 off | – | |
| | With customised text | – | M22-XYK-* 231181 | – | Height of letters: 5 mm Number of lines: 1 Characters per line: up to 48 | |
| Diameter = 90 mm  | 4 languages | English, German, | M22-XAK1 216465 | – | – | |
| | 4 languages | English, German, | M22-XAK2 216466 | – | – | |
| | 4 languages | English, German, | M22-XAK3 216467 | – | – | |
| | 4 languages | English, Swedish, | M22-XAK4 216468 | – | – | |
| | With customised text | – | M22-XAK-* 216469 | – | Height of letters: 7 (5) mm Number of lines: 1 Characters per line: up to 59 (86) | |
| | Blank | – | M22-XAK 216464 | – | – | |
| Diameter = 60 mm  | 4 languages | English, German, | M22-XBK1 216483 | – | – | |
| | With customised text | – | M22-XBK-* 231762 | – | Height of letters: 5 mm Number of lines: 1 Characters per line: up to 48 | |
| | Blank | – | M22-XBK 269580 | – | – | |

















Sealable shroud, IP65

Degree of protection IP65
 Transparent with collapse point, can be reused after Emergency-Stop operation.
 For use with M22(S)-PV, M22(S)-PVL and M22-PVS
 Adjacent holes in the 30 × 50 mm grid must be closed off using M22(S)-B blanking plugs.



| | | | | | | |
|---|---|---|---|---------------------|-------|---|
| – | – | – | – | M22-PL-PV 216397 | 2 off | – |
|---|---|---|---|---------------------|-------|---|

Moeller HPL0211-2004/2005

| Button plate | Front ring: titanium | | | Std. pack | Front ring: black | | |
|---|---|------------------------------|--|-----------------------|-------------------------------|----------------------------|-----------|
| | Type Article no. | Price See Price List | | | Type Article no. | Price See Price List | Std. pack |
| Double actuators, IP66 | | | | | | | |
| With indicator light White lens Spring-return |  | M22-DDL-GR-X1/X0 216700 | | 5 off | M22S-DDL-GR-X1/X0 216701 | | 5 off |
| |  | | | | | | |
| |  | M22-DDL-WS-X1/X0 216706 | | | M22S-DDL-WS-X1/X0 216707 | | |
| |  | | | | | | |
| |  | M22-DDL-GR-GB1/GB0 216702 | | | M22S-DDL-GR-GB1/GB0 216703 | | |
| |  | | | | | | |
| |  | M22-DDL-WS-GB1/GB0 216708 | | | M22S-DDL-WS-GB1/GB0 216709 | | |
| |  | | | | | | |
| |  | M22-DDL-S-X7/X7 216710 | | | M22S-DDL-S-X7/X7 216711 | | |
| |  | | | | | | |
| |  | M22-DDL-S-X4/X5 218145 | | | M22S-DDL-S-X4/X5 218146 | | |
| |  | | | | | | |
| |  | M22-DDL-GR 216698 | | | M22S-DDL-GR 216699 | | |
| |  | | | | | | |
| |  | M22-DDL-WS 216704 | | M22S-DDL-WS 216705 | | | |
| |  | | | | | | |
| With inscription to order ¹⁾ | - - | M22-DDL-*.*..* 226770 | | 5 off | M22S-DDL-*.*..* 230350 | | 5 off |

Notes























Front ring: gold-plated, → 2/40

¹⁾ Example: M22(S)-DDL-*.*..*

- └ Symbol/text 2 (bottom)
- └ Symbol/text 1 (top)
- G = green button plates
- R = red button plates
- S = black button plates
- W = white button plates
- G/R = button plates, top = green, bottom = red
- W/S = button plates, top = white, bottom = black




























| Button plate | Front ring: titanium | | | Front ring: black | | |
|---|---|----------------------------|-----------|---------------------|----------------------------|-----------|
| | Type Article no. | Price See Price List | Std. pack | Type Article no. | Price See Price List | Std. pack |
| Pushbutton actuators, IP67, 69K | | | | | | |
| Actuator flush, spring-return  |  | M22-D-S 216590 | | 10 off | M22S-D-S 216591 | 10 off |
| |  | M22-D-W 216592 | | | M22S-D-W 216593 | |
| |  | M22-D-R 216594 | | | M22S-D-R 216595 | |
| |  | M22-D-G 216596 | | | M22S-D-G 216597 | |
| |  | M22-D-Y 216598 | | | M22S-D-Y 216599 | |
| |  | M22-D-B 216600 | | | M22S-D-B 216601 | |
| | Without | M22-D-X 216602 | | | M22S-D-X 216604 | |
| | Without | M22-D-X-GVP 216603 | | 50 off | | |
| |  | M22-D-R-X0 216605 | | 10 off | M22S-D-R-X0 216606 | 10 off |
| |  | M22-D-G-X1 216607 | | | M22S-D-G-X1 216608 | |
| |  | M22-D-S-X0 216609 | | | M22S-D-S-X0 216610 | |
| |  | M22-D-W-X1 216611 | | | M22S-D-W-X1 216612 | |
| Actuator flush, stay-put Programmable stay-put/spring-return function, → Engineering  |  | M22-DR-S 216613 | | 5 off | M22S-DR-S 216614 | 5 off |
| |  | M22-DR-W 216615 | | | M22S-DR-W 216616 | |
| |  | M22-DR-R 216617 | | | M22S-DR-R 216618 | |
| |  | M22-DR-G 216619 | | | M22S-DR-G 216620 | |
| |  | M22-DR-Y 216621 | | | M22S-DR-Y 216622 | |
| |  | M22-DR-B 216623 | | | M22S-DR-B 216624 | |
| | Without | M22-DR-X 216625 | | | M22S-DR-X 216627 | |
| | Without | M22-DR-X-GVP 216626 | | 50 off | | |
| |  | M22-DR-R-X0 216628 | | 5 off | M22S-DR-R-X0 216629 | 5 off |
| |  | M22-DR-G-X1 216630 | | | M22S-DR-G-X1 216631 | |
| |  | M22-DR-S-X0 216632 | | | M22S-DR-S-X0 216633 | |
| |  | M22-DR-W-X1 216634 | | | M22S-DR-W-X1 216635 | |

Notes

Front ring gold-plated, → 2/40

Moeller HPL0211-2004/2005

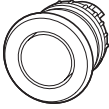
























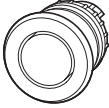
























| | Button plate | Front ring: titanium | | Std. pack | Front ring: black | | Std. pack |
|---|--|--|---------------------|-------------------------|------------------------|--------------------|-----------|
| | | Type Article no. | Price See Price | | Type Article no. | Price See Price | |
| Pushbutton actuators, IP67, 69K | | | | | | | |
| Actuator extended, spring-return  |  | M22-DH-S 216636 | | 5 off | M22S-DH-S 216637 | | 5 off |
| |  | M22-DH-W 216638 | | | M22S-DH-W 216639 | | |
| |  | M22-DH-R 216641 | | | M22S-DH-R 216642 | | |
| |  | M22-DH-G 216643 | | | M22S-DH-G 216645 | | |
| |  | M22-DH-Y 216646 | | | M22S-DH-Y 216647 | | |
| |  | M22-DH-B 216649 | | | M22S-DH-B 216650 | | |
| |  | M22-DH-R-X0 216655 | | | M22S-DH-R-X0 216656 | | |
| |  | M22-DH-G-X1 216657 | | | M22S-DH-G-X1 216658 | | |
| |  | M22-DH-S-X0 216659 | | | M22S-DH-S-X0 216660 | | |
| |  | M22-DH-W-X1 216661 | | | M22S-DH-W-X1 216662 | | |
| | Actuator extended, stay-put Programmable stay-put/spring-return function, → Engineering  |  | M22-DRH-S 216663 | | | 5 off | |
|  | | M22-DRH-W 216665 | | M22S-DRH-W 216666 | | | |
|  | | M22-DRH-R 216667 | | M22S-DRH-R 216668 | | | |
|  | | M22-DRH-G 216669 | | M22S-DRH-G 216670 | | | |
|  | | M22-DRH-Y 216671 | | M22S-DRH-Y 216672 | | | |
|  | | M22-DRH-B 216673 | | M22S-DRH-B 216674 | | | |
|  | | M22-DRH-R-X0 216675 | | M22S-DRH-R-X0 216676 | | | |
|  | | M22-DRH-G-X1 216677 | | M22S-DRH-G-X1 216678 | | | |
|  | | M22-DRH-S-X0 216679 | | M22S-DRH-S-X0 216680 | | | |
|  | | M22-DRH-W-X1 216681 | | M22S-DRH-W-X1 216682 | | | |
| With guard ring, spring-return  | | Without | M22-DG-X 220921 | | 5 off | | |

Notes









































Front ring: gold-plated, → 2/40





| | | Button plate | Colour of mushroom head | Front ring: titanium Type Article no. | Price See Price | Std. pack | Front ring: black Type Article no. | Price See Price | Std. pack |
|---|---------|---|---|---|--------------------|-----------|--|--------------------|-----------|
| Mushroom actuators, IP67, 69K | | | | | | | | | |
| Spring-return | | | | | | | | | |
|  | |  |  | M22-DP-S 216712 | | 5 off | M22S-DP-S 216713 | | 5 off |
| | |  |  | M22-DP-R 216714 | | | M22S-DP-R 216715 | | |
| | |  |  | M22-DP-G 216716 | | | M22S-DP-G 216717 | | |
| | |  |  | M22-DP-Y 216718 | | | M22S-DP-Y 216719 | | |
| | |  |  | M22-DP-R-X0 216720 | | | M22S-DP-R-X0 216721 | | |
| | |  |  | M22-DP-G-X1 216722 | | | M22S-DP-G-X1 216723 | | |
| | |  |  | M22-DP-S-X0 216724 | | | M22S-DP-S-X0 216725 | | |
| | |  |  | M22-DP-W-X1 216726 | | | M22S-DP-W-X1 216727 | | |
| | | Without |  | M22-DP-S-X 216728 | | | M22S-DP-S-X 216730 | | |
| | | Without |  | M22-DP-R-X 216731 | | | M22S-DP-R-X 216733 | | |
| | | Without |  | M22-DP-G-X 216734 | | | M22S-DP-G-X 216736 | | |
| | | Without |  | M22-DP-Y-X 216737 | | | M22S-DP-Y-X 216739 | 5 off | |
| | | Without |  | M22-DP-S-X-GVP 216729 | | | | | |
| | | Without |  | M22-DP-R-X-GVP 216732 | | | | | |
| | Without |  | M22-DP-G-X-GVP 216735 | | | | | | |
| | Without |  | M22-DP-Y-X-GVP 216738 | | | | | | |
| Stay-put Programmable stay-put/spring-return function, → Engineering | | | | | | | | | |
|  | |  |  | M22-DRP-S 216743 | | 5 off | M22S-DRP-S 216744 | | 5 off |
| | |  |  | M22-DRP-R 216745 | | | M22S-DRP-R 216746 | | |
| | |  |  | M22-DRP-G 216747 | | | M22S-DRP-G 216748 | | |
| | |  |  | M22-DRP-Y 216749 | | | M22S-DRP-Y 216750 | | |
| | |  |  | M22-DRP-R-X0 216751 | | | M22S-DRP-R-X0 216752 | | |
| | |  |  | M22-DRP-G-X1 216753 | | | M22S-DRP-G-X1 216754 | | |
| | |  |  | M22-DRP-S-X0 216755 | | | M22S-DRP-S-X0 216756 | | |
| | |  |  | M22-DRP-W-X1 216757 | | | M22S-DRP-W-X1 216758 | | |
| | | Without |  | M22-DRP-S-X 216759 | | | M22S-DRP-S-X 216761 | | |
| | | Without |  | M22-DRP-R-X 216762 | | | M22S-DRP-R-X 216764 | | |
| | | Without |  | M22-DRP-G-X 216765 | | | M22S-DRP-G-X 216767 | | |
| | | Without |  | M22-DRP-Y-X 216768 | | | M22S-DRP-Y-X 216770 | | |
| | | Without |  | M22-DRP-S-X-GVP 216760 | | | | | |
| | | Without |  | M22-DRP-R-X-GVP 216763 | | | | | |
| | Without |  | M22-DRP-G-X-GVP 216766 | | | | | | |
| | Without |  | M22-DRP-Y-X-GVP 216769 | | | | | | |


Moeller HPL0211-2004/2005


| | Function:  = Stay-put  = Spring-return  = V position | Button plate | Inscription | Front ring: titanium | | Front ring: black | | Std. pack |
|--|--|---|---|---|---|------------------------|-------------------------|-----------|
| | | | | Type Article no. | Price See Price List | Type Article no. | Price See Price List | |
| Selector switch actuators, 2 positions, IP66 | | | | | | | | |
| Rotary button  | - |  | 40° |  | - | M22-W 216853 | M22S-W 216854 | 5 off |
| | - |  | 60° |  | - | M22-WR 216855 | M22S-WR 216856 | |
| | - |  | 60° |  | - | M22-WR-X92 216857 | M22S-WR-X92 216858 | |
| | - |  | 60° |  | AUTO HAND | M22-WR-X91 216859 | M22S-WR-X91 216860 | |
| | - |  | 60° | - | With customised inscription | M22-WR-* 226836 | M22S-WR-* 226837 | |
| Thumb-grip  | - |  | 40° | - | - | M22-WK 216865 | M22S-WK 216866 | 10 off |
| | - |  | 60° | - | - | M22-WRK 216867 | M22S-WRK 216869 | |
| | - |  | 60° | - | - | M22-WRK-GVP 216868 | | |
| Thumb-grip, V position  | - |  | 60° | - | - | M22-WKV 216874 | M22S-WKV 216875 | 5 off |
| Selector switch actuators, 3 positions, IP66 | | | | | | | | |
| Rotary button  | 40° |  | 40° |  | - | M22-W3 216861 | M22S-W3 216862 | 5 off |
| | 60° |  | 60° |  | - | M22-WR3 216863 | M22S-WR3 216864 | |
| | 60° |  | 60° |  | AUTO 0 HAND | M22-WR3-X94 226838 | M22S-WR3-X94 226839 | |
| | 60° |  | 60° | - | With customised inscription | M22-WR3-* 226840 | M22S-WR3-* 226841 | |
| Thumb-grip  | 40° |  | 40° | - | - | M22-WK3 216870 | M22S-WK3 216871 | 10 off |
| | 60° |  | 60° | - | - | M22-WRK3 216872 | M22S-WRK3 216873 | |
| | - | - | - | - | - | M22-WRK3-*1) 217436 | M22S-WRK3-*1) 217437 | |
| Selector switch actuators, 4 positions, IP66 | | | | | | | | |
| Labels → 2/20 Not suitable for coding adapters. | | | | | | | | |
| Rotary button  | 45° |  | - |  | - | M22-WR4 279419 | M22S-WR4 279430 | 5 off |
| Thumb-grip  | 45° |  | - |  | - | M22-WRK4 279431 | M22S-WRK4 279432 | 5 off |
| Set of coding adapters | | | | | | | | |
| For converting between stay-put and spring-return function → Engineering | |  |  |  |  | M22-XC-Y 216407 | | 10 off |

Notes

Front ring: gold-plated, → 2/40


















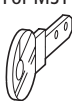
1) Example: M22-WRK3-*

* = 1: 60°  40°

* = 2: 40°  60°












| Function:  = Stay-put  = Spring-return | Key withdrawable in position | Front ring: titanium | | | Front ring: black | | | Std. pack | |
|--|------------------------------|---|------------------------------|------------------------------|-------------------------|----|---------------------------|----------------------------|--------|
| | | Type Article no. | Price See Price List | Type Article no. | Price See Price List | | | | |
| Key-operated actuators, IP66 | | | | | | | | | |
| 2 positions Individual lock mechanisms, not suitable for master key systems, with 1 key Stay-put-/spring-return function and key withdrawability Convertible using M22-XC-... coding adapters | | | | | | | | | |
|  | - |  | 40° | - | 0 | - | M22-WS 216881 | M22S-WS 216882 | 1 off |
| | - |  | 60° | I | 0 | - | M22-WRS 216887 | M22S-WRS 216889 | 5 off |
| | - |  | 60° | I | 0 | - | M22-WRS-GVP 216888 | | 25 off |
| | - |  | 60° | - | 0 | - | M22-WRS-A1 229092 | M22S-WRS-A1 229093 | 5 off |
| Lock mechanism MS2 – MS20 Insert lock mechanism number in the type designation ¹⁾ | - |  | 40° | - | 0 | - | M22-WS-MS* 216883 | M22S-WS-MS* 216884 | 1 off |
| | - |  | 60° | I | 0 | - | M22-WRS-MS* 216890 | M22S-WRS-MS* 216891 | 1 off |
| | - |  | 50° | - | 0 | - | M22-WRS-MS*-A1 217440 | M22S-WRS-MS*-A1 217441 | 5 off |
| 3 positions Individual lock mechanisms, not suitable for master key systems, with 1 key Stay-put-/spring-return function and key withdrawability Convertible using M22-XC-... coding adapters | | | | | | | | | |
|  | 40° |  | 40° | - | 0 | - | M22-WS3 216894 | M22S-WS3 216895 | 1 off |
| | 60° |  | 60° | I | 0 | II | M22-WRS3 216900 | M22S-WRS3 216901 | 5 off |
| | 60° |  | 60° | I | 0 | II | M22-WRS3-GVP 216902 | | 25 off |
| | 60° |  | 60° | Select able ²⁾ | - | - | M22-WRS3-A* 229094 | M22S-WRS3-A* 229095 | 5 off |
| | Select able ²⁾ | - | - | Select able ²⁾ | - | - | M22-WRS3-MS*-A* 217442 | M22S-WRS3-MS*-A* 217443 | 5 off |
| Lock mechanism MS2 – MS20 Insert lock mechanism number in the type designation ¹⁾ | 40° |  | 40° | - | 0 | - | M22-WS3-MS* 216896 | M22S-WS3-MS* 216897 | 1 off |
| | 60° |  | 60° | I | 0 | II | M22-WRS3-MS* 216903 | M22S-WRS3-MS* 216904 | 1 off |
| Individual keys Spare key for AUTO-0-HAND switch | | | | | | | | | |
| For MS1 lock mechanism  | | | | | | | M22-ES-MS1 216416 | M22-ES-MS1 216416 | 5 off |
| For lock mechanism MS2 – MS20 Insert lock mechanism number in the type designation | | | | | | | M22-ES-MS* 216417 | M22-ES-MS* 216417 | 1 off |
| 2 or 3 positions Individual lock mechanisms, not suitable for master key systems, with 1 key Stay-put-/spring-return function and key withdrawability Convertible using M22-XC-... coding adapters | | | | | | | | | |
| Lock mechanism MS1 – MS20 Insert lock mechanism number and symbol in the type designation | | | | | | | | | |
| Select able ³⁾ | - | - | Select able ³⁾ | - | - | - | M22-WRS*-MS*-* 262521 | | 1 off |


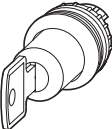

Notes

¹⁾ Delivery:
4 weeks from receipt of order by the factory

³⁾ Example: M22(S)-WRS*-MS*-*
WRS*: * = 2 or 3 positions
(function and key withdrawability
as M22-WRS or M22-WRS3)
MS*: * = MS1 – MS20
(number of individual lock mechanism)
-*
* = Symbol
(from library or text sample)
Front ring: gold-plated, → 2/40


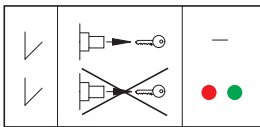


²⁾ Example: M22(S)-WRS3-MS*-A*
MS*: * = MS1 – MS20 (number of individual lock mechanism)
A*: * = 1, function , withdrawable in switch position 0
* = 2, function , withdrawable in switch position I, 0
* = 3, function , withdrawable in switch position 0, II
* = 4, function , withdrawable in switch position I, 0
* = 5, function , withdrawable in switch position 0
* = 6, function , withdrawable in switch position 0, II
* = 7, function , withdrawable in switch position 0

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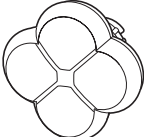
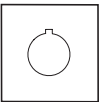
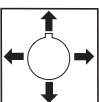
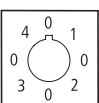
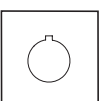
| | Function: ↳ = Stay-put ↳ = Spring-return | Key withdrawable in position | Front ring: titanium | | Front ring: black | | Std. pack |
|---|--|------------------------------|----------------------|----------------------|----------------------------|-----------------------------|-----------|
| | | | Type Article no. | Price See Price List | Type Article no. | Price See Price List | |
| Key-operated actuators, IP66¹⁾ | | | | | | | |
| 2 positions Stay-put/spring return function, convertible using M22-XC-Y With two keys  | - | ↳ | 40° | 0 | M22-WS-SA(*)-* 216885 | M22S-WS-SA(*)-* 216886 | 5 off |
| | - | ↳ | 60° | 0 | M22-WRS-SA(*)-* 216892 | M22S-WRS-SA(*)-* 216893 | |
| 3 positions Stay-put/spring return function, convertible using M22-XC-Y With two keys  | 40° | ↔ | 40° | 0 | M22-WS3-SA(*)-* 216898 | M22S-WS3-SA(*)-* 216899 | |
| | 60° | ↔ | 60° | 0 | M22-WRS3-SA(*)-* 216905 | M22S-WRS3-SA(*)-* 216906 | |
| Individual key for master key system, stainless steel  | - | - | - | - | M22-ES-SA(*)-* 217444 | M22-ES-SA(*)-* 217444 | |

Notes

¹⁾ Master key systems: Delivery time 4 to 6 weeks after receipt of order
 Order form and example, → FO276 (PDF version in the electronic catalogue)
 Front ring: gold-plated, → 2/40

| | Function | Type Article no. | Price See Price List | Std. pack |
|---|---|--------------------|----------------------|-----------|
| Set of coding adapters For converting between stay-put and spring-return function → Engineering  |  | M22-XC-R 216406 | | 10 off |
| For converting between stay-put and spring-return function → Engineering  |  | M22-XC-Y 216407 | | 10 off |



| Inscription | Function: | For use with | Type Article no. | Price See Price List | Front ring: black Type Article no. | Price See Price List | Std. pack |
|---|--|--------------|--|-----------------------------|---|------------------------------|-----------|
| Joystick, IP66 | | | | | | | |
| 4 positions | | | | | | | |
|  | - | + | - | M22-WRJ4 279415 | | M22S-WRJ4 279416 | 5 off |
| | - | ↕ | - | M22-WJ4 279417 | | M22S-WJ4 279418 | 5 off |
| Pushbutton, 4-way, IP66 | | | | | | | |
|  | No inscription, actuator colour black | ↕ | - | M22-D4-S 279411 | | M22S-D4-S 279412 | 5 off |
| | Inscription and actuator colour to order ¹⁾²⁾ | ↕ | - | M22-D4-*-* 279413 | | M22S-D4-*-* 279414 | 5 off |
| Labels | | | | | | | |
|  | Blank | - | Joystick 4-way selector switch actuators | M22-XCK 279433 | | | 10 off |
|  | Direction arrows | - | Joystick | M22-XCK1 279434 | | | |
|  | 0-1-0-2-0-3-0-4 | - | 4-way selector switch actuators | M22-XCK2 279435 | | | |
|  | Inscription to order ²⁾ | - | Joystick 4-way selector switch actuators | M22-XCK-* 279436 | | | |

Notes

Example: M22-D4-*-*

²⁾ Inscription or graphics based on a Word-, DXF- or Label-Editor file supplied by the customer













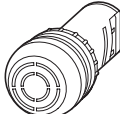

- ¹⁾ B = Blue
- G = Green
- R = Red
- S = Black
- W = White
- Y = Yellow

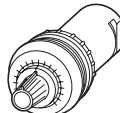

State colours clockwise, starting with 12:00 o'clock, example



Front ring: gold-plated, → 2/40

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| | Colour | | Type Article no. | Price See Price List | Std. pack |
|---|---|-------------------------------------|-----------------------|----------------------------|-----------|
| Indicator lights, IP67, 69K | | | | | |
| Flush  |  | - | M22-L-W 216771 | | 10 off |
| |  | - | M22-L-R 216772 | | |
| |  | - | M22-L-G 216773 | | |
| |  | - | M22-L-Y 216774 | | |
| |  | - | M22-L-B 216775 | | |
| | Without lens | - | M22-L-X 216776 | | |
| | Without lens | - | M22-L-X-GVP 216777 | | |
| Extended, conical  |  | - | M22-LH-W 216778 | | 10 off |
| |  | - | M22-LH-R 216779 | | |
| |  | - | M22-LH-G 216780 | | |
| |  | - | M22-LH-Y 216781 | | |
| |  | - | M22-LH-B 216782 | | |
| | | | | | |
| Compact acoustic indicator, IP40 | | | | | |
| Front black, without buzzer, BA 9s socket  | - | - | M22-AMC 229015 | | 1 off |
| | | | | | |
| Buzzer for acoustic indicator | | | | | |
| 83 dB/10 cm, 18 – 30 mA, Positive pole connected to X1, f = 2300 Hz  | - | Continuous tone, 18 – 30 V AC/DC | M22-XAM 229025 | | 1 off |
| | - | Pulsed tone, 18 – 30 V DC | M22-XAMP 229028 | | 1 off |

| | Circuit symbol | Resistance <i>R</i> kΩ | Front ring: titanium | | Front ring: black | | Std. pack |
|--|---|------------------------------|----------------------|----------------------------|----------------------|----------------------------|-----------|
| | | | Type Article no. | Price See Price List | Type Article no. | Price See Price List | |
| Potentiometer, IP66 | | | | | | | |
| Degree of protection IP66 3 individual screw terminals, $P_{max} = 0.5 W$ Accuracy of resistance value: $\pm 10\%$ (linear)  |  | 1 | M22-R1K 229489 | | M22S-R1K 232231 | | 1 off |
| | | 4.7 | M22-R4K7 229490 | | M22S-R4K7 232232 | | |
| | | 10 | M22-R10K 229491 | | M22S-R10K 232233 | | |
| | | 47 | M22-R47K 229492 | | M22S-R47K 232234 | | |
| | | 100 | M22-R100K 229493 | | M22S-R100K 232235 | | |
| | | 470 | M22-R470K 229494 | | M22S-R470K 232236 | | |
| | | Selectable ¹⁾ | M22-R*.* 263371 | | M22S-R*.* 263372 | | |

Notes

Example: M22(S)-R*.*






















Inscription as submitted text sample (letter height 3 mm) or selected from library.
 Order without inscription: "-"

- 1 = 1 kΩ
- 4.7 = 4.7 kΩ
- 10 = 10 kΩ
- 47 = 47 kΩ
- 100 = 100 kΩ
- 470 = 470 kΩ

Front ring: gold-plated, → 2/40

























| | Colour | Front ring: titanium | | | Front ring: black | | |
|---|--|---|----------------------------|----------------------|-------------------------|----------------------------|-----------|
| | | Type Article no. | Price See Price List | Std. pack | Type Article no. | Price See Price List | Std. pack |
| Illuminated pushbutton actuators, IP67, IP69K | | | | | | | |
| Actuator, flush, spring-return  |  | M22-DL-W 216922 | | 10 off | M22S-DL-W 216924 | | 10 off |
| |  | M22-DL-R 216925 | | | M22S-DL-R 216926 | | |
| |  | M22-DL-G 216927 | | | M22S-DL-G 216928 | | |
| |  | M22-DL-Y 216929 | | | M22S-DL-Y 216930 | | |
| |  | M22-DL-B 216931 | | | M22S-DL-B 216932 | | |
| | Without | M22-DL-X 216933 | | | M22S-DL-X 216935 | | |
| | Without | M22-DL-X-GVP 216934 | | 50 off | | | |
| |  | M22-DL-R-X0 216936 | | 10 off | M22S-DL-R-X0 216937 | | 10 off |
| |  | M22-DL-G-X1 216938 | | | M22S-DL-G-X1 216939 | | |
| |  | M22-DL-W-X0 216940 | | | M22S-DL-W-X0 216941 | | |
| |  | M22-DL-W-X1 216942 | | | M22S-DL-W-X1 216943 | | |
| | Without | M22-DL-X 216954 | | | | | |
| | Flat, stay-put actuator Programmable stay-put/spring-return function, → Engineering  |  | M22-DRL-W 216944 | | 5 off | M22S-DRL-W 216945 | |
|  | | M22-DRL-R 216946 | | M22S-DRL-R 216947 | | | |
|  | | M22-DRL-G 216948 | | M22S-DRL-G 216949 | | | |
|  | | M22-DRL-Y 216950 | | M22S-DRL-Y 216951 | | | |
|  | | M22-DRL-B 216952 | | M22S-DRL-B 216953 | | | |
| Without | | M22-DRL-X 216954 | | M22S-DRL-X 216956 | | | |
| Without | | M22-DRL-X-GVP 216955 | | 50 off | | | |
|  | | M22-DRL-R-X0 216957 | | 5 off | M22S-DRL-R-X0 216958 | | 5 off |
|  | | M22-DRL-G-X1 216959 | | | M22S-DRL-G-X1 216960 | | |
|  | | M22-DRL-W-X0 216961 | | | M22S-DRL-W-X0 216962 | | |
|  | M22-DRL-W-X1 216963 | | M22S-DRL-W-X1 216964 | | | | |
| With guard ring Spring-return  | Without | M22-DGL-X 230961 | | 5 off | | | |

Notes

Front ring: gold-plated, → 2/40





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| | Colour | Front ring: titanium | | | Front ring: black | | |
|---|---|-------------------------|----------------------------|-----------|--------------------------|----------------------------|-----------|
| | | Type Article no. | Price See Price List | Std. pack | Type Article no. | Price See Price List | Std. pack |
| Illuminated pushbuttons, IP67, IP69K | | | | | | | |
| Actuator extended, spring-return  |  | M22-DLH-W 216965 | | 5 off | M22S-DLH-W 216966 | | 5 off |
| |  | M22-DLH-R 216967 | | | M22S-DLH-R 216968 | | |
| |  | M22-DLH-G 216969 | | | M22S-DLH-G 216970 | | |
| |  | M22-DLH-Y 216971 | | | M22S-DLH-Y 216972 | | |
| |  | M22-DLH-B 216973 | | | M22S-DLH-B 216974 | | |
| |  | M22-DLH-R-X0 216975 | | | M22S-DLH-R-X0 216976 | | |
| |  | M22-DLH-G-X1 216977 | | | M22S-DLH-G-X1 216978 | | |
| |  | M22-DLH-W-X0 216979 | | | M22S-DLH-W-X0 216980 | | |
| |  | M22-DLH-W-X1 216981 | | | M22S-DLH-W-X1 216982 | | |
| Actuator extended, stay-put Programmable stay-put/spring-return function, → Engineering  |  | M22-DRLH-W 216788 | | 5 off | M22S-DRLH-W 216791 | | 5 off |
| |  | M22-DRLH-R 216789 | | | M22S-DRLH-R 216792 | | |
| |  | M22-DRLH-G 216796 | | | M22S-DRLH-G 216798 | | |
| |  | M22-DRLH-Y 216799 | | | M22S-DRLH-Y 216801 | | |
| |  | M22-DRLH-B 216802 | | | M22S-DRLH-B 216803 | | |
| |  | M22-DRLH-R-X0 216804 | | | M22S-DRLH-R-X0 216808 | | |
| |  | M22-DRLH-G-X1 216805 | | | M22S-DRLH-G-X1 216809 | | |
| |  | M22-DRLH-W-X0 216806 | | | M22S-DRLH-W-X0 216810 | | |
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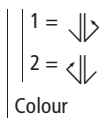
Notes

Front ring: gold-plated, → 2/40


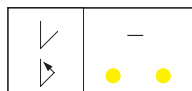


| | | | | | Front ring: titanium | | | Front ring: black | | | |
|--|------------|---|------------|------------------------|-----------------------|------------------|-------------------------|------------------------|------------------|----------------------|-----------|
| Function: | | | | | Colour of thumb-grip | Type Article no. | Price See Price List | Std. pack | Type Article no. | Price See Price List | Std. pack |
| ↘ = Stay-put ↗ = Spring-return | | | | | | | | | | | |
| Illuminated selector switch actuators, thumb-grip, IP66 | | | | | | | | | | | |
| 2 positions Stay-put/spring return function, convertible using M22-XC-Y | | | | | | | | | | | |
| Spring-return  | - | ↗ | 40° | ○ | M22-WLK-W 216812 | | 5 off | M22S-WLK-W 216813 | | 5 off | |
| | - | ↗ | 40° | ● | M22-WLK-R 216814 | | | M22S-WLK-R 216815 | | | |
| | - | ↗ | 40° | ● | M22-WLK-G 216816 | | | M22S-WLK-G 216817 | | | |
| | - | ↗ | 40° | ● | M22-WLK-Y 216818 | | | M22S-WLK-Y 216819 | | | |
| | - | ↗ | 40° | ● | M22-WLK-B 216820 | | | M22S-WLK-B 216821 | | | |
| Stay-put  | - | ↘ | 60° | ○ | M22-WRLK-W 216823 | | | M22S-WRLK-W 216824 | | | |
| | - | ↘ | 60° | ● | M22-WRLK-R 216825 | | | M22S-WRLK-R 216826 | | | |
| | - | ↘ | 60° | ● | M22-WRLK-G 216827 | | | M22S-WRLK-G 216828 | | | |
| | - | ↘ | 60° | ● | M22-WRLK-Y 216829 | | | M22S-WRLK-Y 216830 | | | |
| | - | ↘ | 60° | ● | M22-WRLK-B 216831 | | | M22S-WRLK-B 216832 | | | |
| 3 positions Stay-put/spring return function, convertible using M22-XC-Y | | | | | | | | | | | |
| Spring-return  | 40° | ↔ | 40° | ○ | M22-WLK3-W 216833 | | 5 off | M22S-WLK3-W 216834 | | 5 off | |
| | 40° | ↔ | 40° | ● | M22-WLK3-R 216835 | | | M22S-WLK3-R 216836 | | | |
| | 40° | ↔ | 40° | ● | M22-WLK3-G 216837 | | | M22S-WLK3-G 216838 | | | |
| | 40° | ↔ | 40° | ● | M22-WLK3-Y 216839 | | | M22S-WLK3-Y 216840 | | | |
| | 40° | ↔ | 40° | ● | M22-WLK3-B 216841 | | | M22S-WLK3-B 216842 | | | |
| Stay-put  | 60° | ↓ | 60° | ○ | M22-WRLK3-W 216843 | | | M22S-WRLK3-W 216844 | | | |
| | 60° | ↓ | 60° | ● | M22-WRLK3-R 216845 | | | M22S-WRLK3-R 216846 | | | |
| | 60° | ↓ | 60° | ● | M22-WRLK3-G 216847 | | | M22S-WRLK3-G 216848 | | | |
| | 60° | ↓ | 60° | ● | M22-WRLK3-Y 216849 | | | M22S-WRLK3-Y 216850 | | | |
| | 60° | ↓ | 60° | ● | M22-WRLK3-B 216851 | | | M22S-WRLK3-B 216852 | | | |
| Stay-put, spring-return ¹⁾ | Selectable | - | Selectable | M22-WRLK3-*/ 217438 | | | M22S-WRLK3-*/ 217439 | | | | |


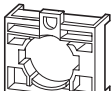
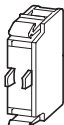











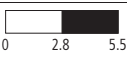
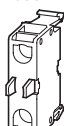

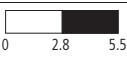



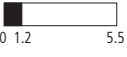





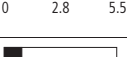
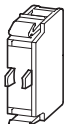

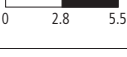



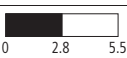


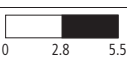


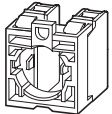


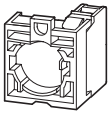



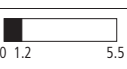
Notes

¹⁾ Example: M22-WRLK3-*/*

Front ring: gold-plated, → 2/40

| | | Function | Type Article no. | Price See Price List | Std. pack |
|--|--|--|--------------------|----------------------|-----------|
| Set of coding adapters | | | | | |
| For converting between stay-put and spring-return function → Engineering 1 set = 2 off | |   | M22-XC-Y 216407 | | 10 off |

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| Connection types | Contacts M = Make, B = Break ⊕ = Positive opening safety function to IEC/EN 60947-5-1 | Circuit symbol | Contact travel diagram, stroke in connection with front element | Configuration ¹⁾ | Type Article no. | Price See Price List | Std. pack | | | | |
|--|---|---|---|---|---|---|-----------|-----------------------|------------------------|------------------------|---------|
| Fixing adapters | | | | | | | | | | | |
| Fixing adapter (front fixing) for 3 contact-/LED elements For M22-(C)K... contact elements and M22-(C)LED... LED elements Sequence numbers on fixing adapter | | | | | | | | | | | |
|  | - | - | - | - | <table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table> | 1/4 | 3/6 | 2/5 | M22-A 216374 | 50 off | |
| 1/4 | 3/6 | 2/5 | | | | | | | | | |
| | - | - | - | - | <table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table> | 1/4 | 3/6 | 2/5 | M22-A-GVP 216375 | 500 off | |
| 1/4 | 3/6 | 2/5 | | | | | | | | | |
| Fixing adapter (front fixing) for 4 contact elements For M22-(C)K contact elements | | | | | | | | | | | |
|  | - | - | - | - | <table border="1"><tr><td>4</td><td>3</td><td>2</td><td>1</td></tr></table> | 4 | 3 | 2 | 1 | M22-A4 279437 | 50 off |
| 4 | 3 | 2 | 1 | | | | | | | | |
| Contact elements | | | | | | | | | | | |
| Front fixing | | | | | | | | | | | |
|  | Screw terminals | 1 M | - |  |  | <table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table> | 1/4 | 3/6 | 2/5 | M22-K10 216376 | 20 off |
| | | 1/4 | 3/6 | 2/5 | | | | | | | |
| | 1 M | - |  |  | <table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table> | 1/4 | 3/6 | 2/5 | M22-K10-GVP 216377 | 500 off | |
| | 1/4 | 3/6 | 2/5 | | | | | | | | |
| | - | 1 B ⊕ |  |  | <table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table> | 1/4 | 3/6 | 2/5 | M22-K01 216378 | 20 off | |
| | 1/4 | 3/6 | 2/5 | | | | | | | | |
| - | 1 B ⊕ |  |  | <table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table> | 1/4 | 3/6 | 2/5 | M22-K01-GVP 216379 | 500 off | | |
| 1/4 | 3/6 | 2/5 | | | | | | | | | |
| - | 1 B ⊕ |  |  | <table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table> | 1/4 | 3/6 | 2/5 | M22-K01D 262165 | 20 off | | |
| 1/4 | 3/6 | 2/5 | | | | | | | | | |
| - | 1 B ⊕ |  |  | <table border="1"><tr><td>2</td><td>3</td><td>1</td></tr></table> | 2 | 3 | 1 | M22-KC10 216380 | 20 off | | |
| 2 | 3 | 1 | | | | | | | | | |
| Base fixing | | | | | | | | | | | |
|  | - | 1 M | - |  |  | <table border="1"><tr><td>2</td><td>3</td><td>1</td></tr></table> | 2 | 3 | 1 | M22-KC10-GVP 216381 | 200 off |
| | 2 | 3 | 1 | | | | | | | | |
| | - | 1 M | - |  |  | <table border="1"><tr><td>2</td><td>3</td><td>1</td></tr></table> | 2 | 3 | 1 | M22-KC01 216382 | 20 off |
| | 2 | 3 | 1 | | | | | | | | |
| | - | 1 B ⊕ |  |  | <table border="1"><tr><td>2</td><td>3</td><td>1</td></tr></table> | 2 | 3 | 1 | M22-KC01-GVP 216383 | 200 off | |
| | 2 | 3 | 1 | | | | | | | | |
| - | 1 B ⊕ |  |  | <table border="1"><tr><td>2</td><td>3</td><td>1</td></tr></table> | 2 | 3 | 1 | M22-KC10 216384 | 20 off | | |
| 2 | 3 | 1 | | | | | | | | | |
| - | 1 B ⊕ |  |  | <table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table> | 1/4 | 3/6 | 2/5 | M22-CK01 216385 | 20 off | | |
| 1/4 | 3/6 | 2/5 | | | | | | | | | |
| - | 1 B ⊕ |  |  | <table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table> | 1/4 | 3/6 | 2/5 | M22-CK01D 262510 | 20 off | | |
| 1/4 | 3/6 | 2/5 | | | | | | | | | |
| Contact elements | | | | | | | | | | | |
| Front fixing | | | | | | | | | | | |
|  | Cage Clamp ²⁾ | 1 M | - |  |  | <table border="1"><tr><td>2</td><td>3</td><td>1</td></tr></table> | 2 | 3 | 1 | M22-CK10 216386 | 20 off |
| | | 2 | 3 | 1 | | | | | | | |
| | | - | 1 B ⊕ |  |  | <table border="1"><tr><td>2</td><td>3</td><td>1</td></tr></table> | 2 | 3 | 1 | M22-CKC10 216387 | 20 off |
| 2 | 3 | 1 | | | | | | | | | |
| - | 1 B ⊕ |  |  | <table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table> | 1/4 | 3/6 | 2/5 | M22-CK01 216385 | 20 off | | |
| 1/4 | 3/6 | 2/5 | | | | | | | | | |
| Base fixing | | | | | | | | | | | |
|  | - | 1 M | - |  |  | <table border="1"><tr><td>2</td><td>3</td><td>1</td></tr></table> | 2 | 3 | 1 | M22-CKC10 216386 | 20 off |
| | 2 | 3 | 1 | | | | | | | | |
| - | 1 B ⊕ |  |  | <table border="1"><tr><td>2</td><td>3</td><td>1</td></tr></table> | 2 | 3 | 1 | M22-CKC01 216387 | 20 off | | |
| 2 | 3 | 1 | | | | | | | | | |
| Complete modules | | | | | | | | | | | |
| Assembly of contact element with screw terminals and fixing adapter, Front fixing | | | | | | | | | | | |
|  | - | 1 M | 1 B ⊕ |  |  | <table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table> | 1/4 | 3/6 | 2/5 | M22-AK11 216505 | 5 off |
| | 1/4 | 3/6 | 2/5 | | | | | | | | |
|  | - | 1 M | - |  |  | <table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table> | 1/4 | 3/6 | 2/5 | M22-AK10 216504 | 5 off |
| | 1/4 | 3/6 | 2/5 | | | | | | | | |
| - | 1 B ⊕ |  |  | <table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table> | 1/4 | 3/6 | 2/5 | M22-AK01 216503 | 5 off | | |
| 1/4 | 3/6 | 2/5 | | | | | | | | | |


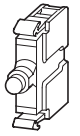








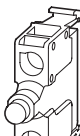








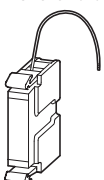
Notes

¹⁾ Assignment: Assignment of the fixing adapter with sequence numbers according to EN 50013

$\begin{matrix} x \\ y \end{matrix}$ = Sequence number on fixing adapter
 $\begin{matrix} x \\ y \end{matrix}$ = Function number on contact element

²⁾ Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/Minden, Germany



| | Rated operational voltage | Rated operational current | Power consumption | Lifespan to EN 60064 at $T_a = +25\text{ °C}$ | Colour | Type Article no. | Price See Price | Std. pack | |
|--|---------------------------|---------------------------|-------------------|---|---|---|-------------------------|-----------|--|
| | U_e V | I_e mA | $P_{max.}$ W | t_{mean} (AC) h | | | | | |
| LED elements with screw terminals | | | | | | | | | |
| → Engineering | | | | | | | | | |
|  | | | | | | | | | |
| Front fixing  | 12 – 30 V AC/DC | 8 – 15 | 0.26 at 24 V | 100000 |  | M22-LED-W 216557 | | 20 off | |
| | | | | |  | M22-LED-R 216558 | | | |
| | | | | |  | M22-LED-G 216559 | | | |
| | | | | |  | M22-LED-B 218057 | | | |
| | 85 – 264 V AC, 50/60 Hz | 5 – 15 | 0.33 | | |  | M22-LED230-W 216563 | | |
| | | | | | |  | M22-LED230-R 216564 | | |
| | | | | | |  | M22-LED230-G 216565 | | |
| | | | | | |  | M22-LED230-B 218059 | | |
| Base fixing  | 12 – 30 V AC/DC | 8 – 15 | 0.26 at 24 V | 100000 |  | M22-LEDC-W 216560 | | | |
| | | | | |  | M22-LEDC-R 216561 | | | |
| | | | | |  | M22-LEDC-G 216562 | | | |
| | | | | |  | M22-LEDC-B 218058 | | | |
| | 85 – 264 V AC, 50/60 Hz | 5 – 15 | 0.33 | | |  | M22-LEDC230-W 216566 | | |
| | | | | | |  | M22-LEDC230-R 216567 | | |
| | | | | | |  | M22-LEDC230-G 216568 | | |
| | | | | | |  | M22-LEDC230-B 218060 | | |
| LED series elements with screw terminals | | | | | | | | | |
| Front- and base fixing | | | | | | | | | |
|  | | | | | | | | | |
| LED resistor elements For connecting 12 – 30 V LED elements to: | 42 – 60 V AC/DC | – | | | | M22-XLED60 231078 | | 10 off | |
| | 220V DC | – | | | | M22-XLED220 ¹⁾ 271541 | | | |
| LED test elements For de-coupled function test (lamp test) For connection to: | 12 – 240 V AC/DC | – | | | | M22-XLED-T 231079 | | | |
| | 85 – 264 V AC | – | | | | M22-XLED230-T 231080 | | | |

Notes


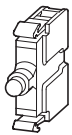








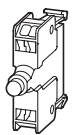








For pushbutton actuators, indicator lights, illuminated pushbuttons and illuminated selector switch actuators, the following applies:

M22...-R only in combination with M22-LED...-R
M22...-G only in combination with M22-LED...-G
M22...-W only in combination with M22-LED...-W
M22...-Y only in combination with M22-LED...-Y
M22...-B in combination with M22-LED...-W
M22...-B or in combination with M22-LED...-B

¹⁾ Maximum ambient temperature: -25 °C to +55 °C



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| | Rated operational voltage | Rated operational current | Power consumption | Lifespan to EN 60064 at $T_a = +25\text{ °C}$ | Colour | Type Article no. | Price See Price | Std. pack |
|---|---------------------------|---------------------------|-------------------|---|--|--------------------------|-----------------|-----------|
| | U_e V | I_e mA | $P_{max.}$ W | t_{mean} (AC) h | | | | |
| LED elements with Cage Clamp | | | | | | | | |
| → Engineering Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/Minden, Germany | | | | | | | | |
|  | | | | | | | | |
| Front fixing  | 12 – 30 V AC/DC | 8 – 15 | 0.26 at 24 V | 100000 |  | M22-CLED-W 216569 | | 20 off |
| | | | | |  | M22-CLED-R 216570 | | |
| | | | | |  | M22-CLED-G 216571 | | |
| | | | | |  | M22-CLED-B 218061 | | |
| | 85 – 264 V AC, 50/60 Hz | 5 – 15 | 0.33 | |  | M22-CLED230-W 216575 | | |
| | | | | |  | M22-CLED230-R 216576 | | |
| | | | | |  | M22-CLED230-G 216577 | | |
| | | | | |  | M22-CLED230-B 218063 | | |
| Base fixing  | 12 – 30 V AC/DC | 8 – 15 | 0.26 at 24 V | 100000 |  | M22-CLEDC-W 216572 | | 20 off |
| | | | | |  | M22-CLEDC-R 216573 | | |
| | | | | |  | M22-CLEDC-G 216574 | | |
| | | | | |  | M22-CLEDC-B 218062 | | |
| | 85 – 264 V AC, 50/60 Hz | 5 – 15 | 0.33 | |  | M22-CLEDC230-W 216578 | | 20 off |
| | | | | |  | M22-CLEDC230-R 216579 | | |
| | | | | |  | M22-CLEDC230-G 216580 | | |
| | | | | |  | M22-CLEDC230-B 218064 | | |

Notes For pushbutton actuators, indicator lights, illuminated pushbuttons and illuminated selector switch actuators, the following applies:

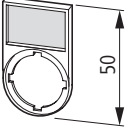
- M22...-R only in combination with M22-LED...-R
- M22...-G only in combination with M22-LED...-G
- M22...-W only in combination with M22-LED...-W
- M22...-Y only in combination with M22-LED...-W
- M22...-B in combination with M22-LED...-W
- M22...-B or in combination with M22-LED...-B

Control Circuit Devices
RMQ-Titan




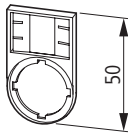
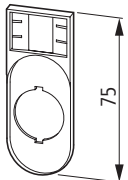
Complete Legend Plates

Moeller HPL0211-2004/2005

| Inscription | Type Article no. | Price | Std. pack |
|---|---------------------|-------------------------------|-----------|
| Complete legend plates, IP66 | | | |
| 30 × 50 mm, round, black (RAL 9005) | | | |
|  | 0 I | M22S-ST-X88 216485 | 10 off |
| | 0 I | M22S-ST-X89 218147 | |
| | I 0 II | M22S-ST-X93 216486 | |
| | 1 | M22S-ST-X52 256797 | |
| | 2 | M22S-ST-X53 256798 | |
| | STOP | M22S-ST-GB0 216494 | |
| | START | M22S-ST-GB1 216495 | |
| | Aus | M22S-ST-D5 218299 | |
| | OFF | M22S-ST-GB5 218300 | |
| | ARRÊT | M22S-ST-F0 256791 | |
| | Ein | M22S-ST-D6 216487 | |
| | ON | M22S-ST-GB6 216496 | |
| | MARCHE | M22S-ST-F1 256792 | |
| | Störung | M22S-ST-D8 216489 | |
| | FAULT | M22S-ST-GB8 216498 | |
| | DÉFAUT | M22S-ST-F67 256795 | |
| | Betrieb | M22S-ST-D7 216488 | |
| | RUN | M22S-ST-GB7 216497 | |
| | EN SERVICE | M22S-ST-F7 256793 | |
| | Hand AUTO | M22S-ST-D11 216492 | |
| | MAN. AUTO | M22S-ST-GB11 216500 | |
| | Aus Ein | M22S-ST-D10 216490 | |
| | OFF ON | M22S-ST-GB10 216499 | |
| | ARRÊT MARCHE | M22S-ST-F10 256794 | |
| | HAND 0 AUTO | M22S-ST-D12 216493 | |
| | MAN. 0 AUTO | M22S-ST-GB12 216501 | |
| | SOUS TENSION | M22S-ST-F68 256796 | |



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| Inscription | Colour | Type Article no. | Price | Std. pack | Notes |
|---|----------------------|---------------------|-------------------------|-----------|---|
| Insert plates for label mounts, 18 × 27 mm | | | | | |
|  | Aluminium, blank | - | M22-XST 216480 | 100 off | - |
| | Aluminium, blank | - | M22-XST-GVP 216481 | 500 off | - |
| | With customised text | - | M22-XST- 216482 | 1 off | Letter height 3 mm: max. 3 lines, max. 12 characters per line Letter height 5 mm: max. 2 lines, max. 8 characters per line |
| Legend plate mounts, without label, IP66 | | | | | |
| Round, black (RAL 9005), 30 mm wide | | | | | |
|  | - | ● | M22S-ST-X 216392 | 100 off | - |
| | - | ● | M22S-ST-X-GVP 216393 | 500 off | - |
|  | For double actuators | ● | M22S-STDD-X 216394 | 10 off | - |





| Inscription | For use with | Colour, symbol | Style: flush | | Style: extended | | Std. pack |
|--|---------------------------------------|----------------|------------------------|-----------------|-------------------------|-----------------|-----------|
| | | | Type Article no. | Price See Price | Type Article no. | Price See Price | |
| Button plates for pushbutton actuators | | | | | | | |
| ≦ 5 characters: letter height 5 mm > 5 characters: letter height 3 mm | | | | | | | |
| - | M22(S)-D-X M22(S)-DR-X M22-DG-X | ● | M22-XD-S 216421 | | M22-XDH-S 216428 | | 10 off |
| - | | ○ | M22-XD-W 216422 | | M22-XDH-W 216429 | | |
| - | | ● | M22-XD-R 216423 | | M22-XDH-R 216430 | | |
| - | | ● | M22-XD-G 216424 | | M22-XDH-G 216431 | | |
| - | | ● | M22-XD-Y 216425 | | M22-XDH-Y 216432 | | |
| - | | ● | M22-XD-B 216426 | | M22-XDH-B 216433 | | |
| Selectable, with customised inscription ¹⁾ | | - | M22-XD-*. * 216427 | | M22-XDH-*. * 216434 | | 1 off |
| Zu | | ● | M22-XD-S-D2 218184 | | M22-XDH-S-D2 218229 | | 10 off |
| Auf | | ● | M22-XD-S-D3 218185 | | M22-XDH-S-D3 218230 | | |
| Ab | | ● | M22-XD-S-D4 218186 | | M22-XDH-S-D4 218231 | | |
| Aus | | ● | M22-XD-R-D5 218187 | | M22-XDH-R-D5 218232 | | |
| Ein | | ● | M22-XD-S-D6 218188 | | M22-XDH-S-D6 218233 | | |
| Entsperren | | ● | M22-XD-B-D14 218189 | | M22-XDH-B-D14 218234 | | |
| Vorwärts | | ● | M22-XD-S-D15 218190 | | M22-XDH-S-D15 218235 | | |
| Rückwärts | | ● | M22-XD-S-D16 218191 | | M22-XDH-S-D16 218236 | | |
| Heben | | ● | M22-XD-S-D17 218192 | | M22-XDH-S-D17 218237 | | |
| Senken | | ● | M22-XD-S-D18 218193 | | M22-XDH-S-D18 218238 | | |
| STOP | | ● | M22-XD-R-GB0 218194 | | M22-XDH-R-GB0 218239 | | |
| STOP | | ● | M22-XD-S-GB0 218195 | | M22-XDH-S-GB0 218240 | | |
| START | | ● | M22-XD-G-GB1 218196 | | M22-XDH-G-GB1 218241 | | |
| START | | ○ | M22-XD-W-GB1 218197 | | M22-XDH-W-GB1 218242 | | |
| CLOSE | | ● | M22-XD-S-GB2 218198 | | M22-XDH-S-GB2 218243 | | |
| UP | | ● | M22-XD-S-GB3 218199 | | M22-XDH-S-GB3 218244 | | |
| DOWN | | ● | M22-XD-S-GB4 218200 | | M22-XDH-S-GB4 218245 | | |
| TEST | | ● | M22-XD-S-GB9 218201 | | M22-XDH-S-GB9 218246 | | |
| OFF | | ● | M22-XD-R-GB5 218202 | | M22-XDH-R-GB5 218247 | | |
| ON | | ● | M22-XD-S-GB6 218203 | | M22-XDH-S-GB6 218248 | | |

Notes

Example: M22-X...*. *

- Symbol (symbol identification from library, e.g. GB12 or to supplied master)
- Colour: e.g. -R, -G, -B, -W, -Y, -S



























Letter height 3 mm:
max. 8 characters in 1st line,
10 characters in 2nd line,
8 characters in 3rd line



Letter height 5 mm:
max. 5 characters per line



Moeller HPL0211-2004/2005

| Inscription | For use with | Colour, symbol | Style: flush | | Style: extended | | Std. pack |
|--|---------------------------------------|---|-------------------------|--------------------|--------------------------|--------------------|-----------|
| | | | Type Article no. | Price See Price | Type Article no. | Price See Price | |
| Button plates for pushbutton actuators | | | | | | | |
| ≦ 5 characters: letter height 5 mm > 5 characters: letter height 3 mm | | | | | | | |
| RESET | M22(S)-D-X M22(S)-DR-X M22-DG-X |  | M22-XD-B-GB14 218204 | | M22-XDH-B-GB14 218249 | | 10 off |
| FORWARD | |  | M22-XD-S-GB15 218205 | | M22-XDH-S-GB15 218250 | | |
| REVERSE | |  | M22-XD-S-GB16 218206 | | M22-XDH-S-GB16 218251 | | |
| RAISE | |  | M22-XD-S-GB17 218208 | | M22-XDH-S-GB17 218252 | | |
| LOWER | |  | M22-XD-S-GB18 218209 | | M22-XDH-S-GB18 218253 | | |
| Stop | |  | M22-XD-R-X0 218153 | | M22-XDH-R-X0 218155 | | |
| Stop | |  | M22-XD-S-X0 218154 | | M22-XDH-S-X0 218156 | | |
| Start | |  | M22-XD-G-X1 218165 | | M22-XDH-G-X1 218210 | | |
| Start | |  | M22-XD-S-X1 218166 | | M22-XDH-S-X1 218211 | | |
| Start | |  | M22-XD-W-X1 218167 | | M22-XDH-W-X1 218212 | | |
| Start | |  | M22-XD-G-X2 218168 | | M22-XDH-G-X2 218213 | | |
| Start | |  | M22-XD-S-X2 218169 | | M22-XDH-S-X2 218214 | | |
| Increase | |  | M22-XD-S-X4 218170 | | M22-XDH-S-X4 218215 | | |
| Decrease | |  | M22-XD-S-X5 218171 | | M22-XDH-S-X5 218216 | | |
| Reset | |  | M22-XD-B-X6 218172 | | M22-XDH-B-X6 218217 | | |
| Direction of movement | |  | M22-XD-S-X7 218173 | | M22-XDH-S-X7 218218 | | |
| Direction of movement | |  | M22-XD-S-X8 218174 | | M22-XDH-S-X8 218219 | | |
| Manual | |  | M22-XD-S-X9 218175 | | M22-XDH-S-X9 218220 | | |
| Automatic | |  | M22-XD-S-X10 218176 | | M22-XDH-S-X10 218221 | | |
| Inch | |  | M22-XD-S-X11 218177 | | M22-XDH-S-X11 218222 | | |
| Unlock | |  | M22-XD-S-X12 218178 | | M22-XDH-S-X12 218223 | | |
| Unclamp | |  | M22-XD-S-X13 218179 | | M22-XDH-S-X13 218224 | | |
| Clamp | |  | M22-XD-S-X14 218180 | | M22-XDH-S-X14 218225 | | |
| Release | |  | M22-XD-S-X15 218181 | | M22-XDH-S-X15 218226 | | |
| Liquid | |  | M22-XD-S-X16 218182 | | M22-XDH-S-X16 218227 | | |
| Klaxon | |  | M22-XD-S-X17 218183 | | M22-XDH-S-X17 218228 | | |





| Inscription | For use with | Colour, symbol | Type Article no. | Price | Std. pack |
|---|------------------|----------------|--------------------------|-------|-----------|
| Button plates for mushroom actuators | | | | | |
| ≦ 5 characters: letter height 5 mm | | | | | |
| > 5 characters: letter height 3 mm | | | | | |
| - | M22(S)-D(R)P-... | ● | M22-XDP-S 216435 | | 10 off |
| - | | ○ | M22-XDP-W 216436 | | |
| - | | ● | M22-XDP-R 216437 | | |
| - | | ● | M22-XDP-G 216438 | | |
| - | | ● | M22-XDP-Y 216439 | | |
| Selectable, with customised inscription ¹⁾ | | - | M22-XDP-*. * 216440 | | |
| Zu | | ● | M22-XDP-S-D2 218272 | | |
| Auf | | ● | M22-XDP-S-D3 218273 | | |
| Ab | | ● | M22-XDP-S-D4 218274 | | |
| Aus | | ● | M22-XDP-R-D5 218275 | | |
| Ein | | ● | M22-XDP-S-D6 218276 | | |
| Vorwärts | | ● | M22-XDP-S-D15 218277 | | |
| Rückwärts | | ● | M22-XDP-S-D16 218278 | | |
| Heben | | ● | M22-XDP-S-D17 218279 | | |
| Senken | | ● | M22-XDP-S-D18 218280 | | |
| STOP | | ● | M22-XDP-R-GB0 218281 | | |
| STOP | | ● | M22-XDP-S-GB0 218282 | | |
| START | | ● | M22-XDP-G-GB1 218283 | | |
| START | | ○ | M22-XDP-W-GB1 218284 | | |
| CLOSE | | ● | M22-XDP-S-GB2 218285 | | |
| UP | | ● | M22-XDP-S-GB3 218286 | | |
| DOWN | | ● | M22-XDP-S-GB4 218287 | | |
| OFF | | ● | M22-XDP-R-GB5 218289 | | |
| ON | | ● | M22-XDP-S-GB6 218290 | | |
| TEST | | ● | M22-XDP-S-GB9 218288 | | |
| FORWARD | | ● | M22-XDP-S-GB15 218291 | | |
| REVERSE | | ● | M22-XDP-S-GB16 218292 | | |

Notes

Example: M22-X...*-*

- Symbol (symbol identification from library, e.g. GB12 or to supplied mast)
- Colour: e.g. -R, -G, -B, -W, -Y, -S

Character size 3 mm:
max. 8 characters on 1st line,
10 characters on 2nd line and
8 characters on 3rd line



Character size 5 mm:
max. 5 characters on one line



Moeller HPL0211-2004/2005

| Inscription | For use with | Colour, symbol | Type Article no. | Price | Std. pack |
|---|------------------|----------------|--------------------------|-------|-----------|
| Button plates for mushroom actuators | | | | | |
| ≤ 5 characters: letter height 5 mm | | | | | |
| > 5 characters: letter height 3 mm | | | | | |
| RAISE | M22(S)-D(R)P-... | ● | M22-XDP-S-GB17 218293 | | 10 off |
| LOWER | | ● | M22-XDP-S-GB18 218294 | | |
| Stop | | ⊙ | M22-XDP-R-X0 218157 | | |
| Stop | | ⊙ | M22-XDP-S-X0 218158 | | |
| Start | | ⏏ | M22-XDP-G-X1 218254 | | |
| Start | | ⏏ | M22-XDP-S-X1 218255 | | |
| Start | | ⏏ | M22-XDP-W-X1 218256 | | |
| Start | | ⏏ | M22-XDP-G-X2 218257 | | |
| Start | | ⏏ | M22-XDP-S-X2 218258 | | |
| Increase | | + | M22-XDP-S-X4 218259 | | |
| Decrease | | - | M22-XDP-S-X5 218260 | | |
| Direction of movement | | ↑ | M22-XDP-S-X7 218261 | | |
| Direction of movement | | ↖ | M22-XDP-S-X8 218262 | | |
| Manual | | ⚙ | M22-XDP-S-X9 218263 | | |
| Automatic | | ⊙ | M22-XDP-S-X10 218264 | | |
| Inch | | ⊕ | M22-XDP-S-X11 218265 | | |
| Unlock | | ⏏ | M22-XDP-S-X12 218266 | | |
| Unclamp | | ⏏ | M22-XDP-S-X13 218267 | | |
| Clamp | | ⏏ | M22-XDP-S-X14 218268 | | |
| Release | | ⏏ | M22-XDP-S-X15 218269 | | |
| Liquid | | ⏏ | M22-XDP-S-X16 218270 | | |
| Klaxon | | ⏏ | M22-XDP-S-X17 218271 | | |





| Inscription | For use with | Colour, symbol | Style: flush | | Std. pack | Style: extended | | Std. pack |
|--|---------------------|----------------|-------------------------|----------------------|-----------|---------------------|----------------------|-----------|
| | | | Type Article no. | Price See Price List | | Type Article no. | Price See Price List | |
| Lenses for indicator lights | | | | | | | | |
| ≤ 5 characters: letter height 5 mm > 5 characters: letter height 3 mm | | | | | | | | |
| - | M22-L-X M22-LC-X | | M22-XL-W 216453 | | 10 off | M22-XLH-W 216459 | | 10 off |
| - | | | M22-XL-R 216454 | | | M22-XLH-R 216460 | | |
| - | | | M22-XL-G 216455 | | | M22-XLH-G 216461 | | |
| - | | | M22-XL-Y 216456 | | | M22-XLH-Y 216462 | | |
| - | | | M22-XL-B 216457 | | | M22-XLH-B 216463 | | |
| Selectable, with customised inscription ¹⁾ | | - | M22-XL-*. * 216458 | | | | | |
| Zu | | | M22-XL-W-D2 218403 | | | | | |
| Auf | | | M22-XL-W-D3 218404 | | | | | |
| Ab | | | M22-XL-W-D4 218405 | | | | | |
| Aus | | | M22-XL-R-D5 218406 | | | | | |
| Ein | | | M22-XL-W-D6 218407 | | | | | |
| Vorwärts | | | M22-XL-W-D15 218408 | | | | | |
| Rückwärts | | | M22-XL-W-D16 218409 | | | | | |
| Heben | | | M22-XL-W-D17 218410 | | | | | |
| Senken | | | M22-XL-W-D18 218411 | | | | | |
| STOP | | | M22-XL-R-GB0 218412 | | | | | |
| STOP | | | M22-XL-W-GB0 218413 | | | | | |
| START | | | M22-XL-G-GB1 218414 | | | | | |
| START | | | M22-XL-W-GB1 218415 | | | | | |
| CLOSE | | | M22-XL-W-GB2 218416 | | | | | |
| UP | | | M22-XL-W-GB3 218417 | | | | | |
| DOWN | | | M22-XL-W-GB4 218418 | | | | | |
| TEST | | | M22-XL-W-GB9 218419 | | | | | |
| OFF | | | M22-XL-R-GB5 218420 | | | | | |
| ON | | | M22-XL-W-GB6 218421 | | | | | |
| FORWARD | | | M22-XL-W-GB15 218422 | | | | | |

Notes

Example: M22-X...-*. *

- Symbol (symbol identification from library, e.g. GB12 or to supplied master)
- Colour: e.g. -R, -G, -B, -W, -Y, -S























Character size 3 mm:
max. 8 characters on 1st line,
10 characters on 2nd line and
8 characters on 3rd line



Character size 5 mm:
max. 5 characters on one line



Moeller HPL0211-2004/2005

| Inscription | For use with | Colour, symbol | Style: flush Type Article no. | Price See Price List | Std. pack |
|--|---------------------|---|-------------------------------------|-------------------------|-----------|
| Lenses for indicator lights | | | | | |
| ≦ 5 characters: letter height 5 mm > 5 characters: letter height 3 mm | | | | | |
| REVERSE | M22-L-X M22-LC-X |  | M22-XL-W-GB16 218423 | | 10 off |
| RAISE | |  | M22-XL-W-GB17 218424 | | |
| LOWER | |  | M22-XL-W-GB18 218425 | | |
| Stop | |  | M22-XL-R-X0 218163 | | |
| Stop | |  | M22-XL-W-X0 218164 | | |
| Start | |  | M22-XL-G-X1 218384 | | |
| Start | |  | M22-XL-W-X1 218385 | | |
| Start | |  | M22-XL-G-X2 218386 | | |
| Start | |  | M22-XL-W-X2 218387 | | |
| Increase | |  | M22-XL-W-X4 218388 | | |
| Decrease | |  | M22-XL-W-X5 218389 | | |
| Direction of movement | |  | M22-XL-W-X7 218390 | | |
| Direction of movement | |  | M22-XL-W-X8 218391 | | |
| Manual | |  | M22-XL-W-X9 218392 | | |
| Automatic | |  | M22-XL-W-X10 218393 | | |
| Inch | |  | M22-XL-W-X11 218394 | | |
| Unlock | |  | M22-XL-W-X12 218395 | | |
| Unclamp | |  | M22-XL-W-X13 218396 | | |
| Clamp | |  | M22-XL-W-X14 218399 | | |
| Release | |  | M22-XL-W-X15 218400 | | |
| Liquid | |  | M22-XL-W-X16 218401 | | |
| Klaxon | |  | M22-XL-W-X17 218402 | | |





| Inscription | For use with | Colour, symbol | Style: flush | Price See Price List | Style: extended | Std. pack |
|--|---|----------------|-------------------------|----------------------------|--------------------------|-----------|
| | | | Type Article no. | | Type Article no. | |
| Button lenses for illuminated pushbuttons | | | | | | |
| ≦ 5 characters: letter height 5 mm > 5 characters: letter height 3 mm | | | | | | |
| - | M22(S)-DL-X M22(S)-DRL-X M22S-DGL-X | | M22-XDL-W 216441 | | M22-XDLH-W 216447 | 10 off |
| - | | | M22-XDL-R 216442 | | M22-XDLH-R 216448 | |
| - | | | M22-XDL-G 216443 | | M22-XDLH-G 216449 | |
| - | | | M22-XDL-Y 216444 | | M22-XDLH-Y 216450 | |
| - | | | M22-XDL-B 216445 | | M22-XDLH-B 216451 | |
| Selectable, with customised inscription ¹⁾ | | - | M22-XDL-*-* 216446 | | M22-XDLH-*-* 216452 | |
| Zu | | | M22-XDL-W-D2 218316 | | M22-XDLH-W-D2 218359 | |
| Auf | | | M22-XDL-W-D3 218317 | | M22-XDLH-W-D3 218360 | |
| Ab | | | M22-XDL-W-D4 218318 | | M22-XDLH-W-D4 218361 | |
| Aus | | | M22-XDL-R-D5 218319 | | M22-XDLH-R-D5 218362 | |
| Ein | | | M22-XDL-W-D6 218320 | | M22-XDLH-W-D6 218363 | |
| Entsperren | | | M22-XDL-B-D14 218321 | | M22-XDLH-B-D14 218364 | |
| Vorwärts | | | M22-XDL-W-D15 218322 | | M22-XDLH-W-D15 218365 | |
| Rückwärts | | | M22-XDL-W-D16 218323 | | M22-XDLH-W-D16 218366 | |
| Heben | | | M22-XDL-W-D17 218324 | | M22-XDLH-W-D17 218367 | |
| Senken | | | M22-XDL-W-D18 218325 | | M22-XDLH-W-D18 218368 | |
| STOP | | | M22-XDL-R-GB0 218326 | | M22-XDLH-R-GB0 218369 | |
| STOP | | | M22-XDL-W-GB0 218327 | | M22-XDLH-W-GB0 218370 | |
| START | | | M22-XDL-G-GB1 218328 | | M22-XDLH-G-GB1 218371 | |
| START | | | M22-XDL-W-GB1 218329 | | M22-XDLH-W-GB1 218372 | |
| CLOSE | | | M22-XDL-W-GB2 218330 | | M22-XDLH-W-GB2 218373 | |
| UP | | | M22-XDL-W-GB3 218331 | | M22-XDLH-W-GB3 218374 | |
| DOWN | | | M22-XDL-W-GB4 218332 | | M22-XDLH-W-GB4 218375 | |
| TEST | | | M22-XDL-W-GB9 218333 | | M22-XDLH-W-GB9 218376 | |
| OFF | | | M22-XDL-R-GB5 218334 | | M22-XDLH-R-GB5 218377 | |
| ON | | | M22-XDL-W-GB6 218335 | | M22-XDLH-W-GB6 218378 | |

Notes

Example: M22-X...-*-*

└ Symbol (symbol identification from library, e.g. GB12 or to supplied master)
└ Colour: e.g. -R, -G, -B, -W, -Y, -S


























Character size 3 mm:
max. 8 characters on 1st line,
10 characters on 2nd line and
8 characters on 3rd line



Character size 5 mm:
max. 5 characters on one line






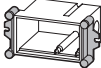
Moeller HPL0211-2004/2005

| Inscription | For use with | Colour, symbol | Style: flush | Price See Price List | Style: extended | Std. pack |
|--|---|---|--------------------------|----------------------------|---------------------------|-----------|
| | | | Type Article no. | | Type Article no. | |
| Button lenses for illuminated pushbuttons | | | | | | |
| ≦ 5 characters: letter height 5 mm > 5 characters: letter height 3 mm | | | | | | |
| RESET | M22(S)-DL-X M22(S)-DRL-X M22S-DGL-X |  | M22-XDL-B-GB14 218336 | | M22-XDLH-B-GB14 218379 | 10 off |
| FORWARD | |  | M22-XDL-W-GB15 218337 | | M22-XDLH-W-GB15 218380 | |
| REVERSE | |  | M22-XDL-W-GB16 218338 | | M22-XDLH-W-GB16 218381 | |
| RAISE | |  | M22-XDL-W-GB17 218339 | | M22-XDLH-W-GB17 218382 | |
| LOWER | |  | M22-XDL-W-GB18 218340 | | M22-XDLH-W-GB18 218383 | |
| Stop | |  | M22-XDL-R-X0 218159 | | M22-XDLH-R-X0 218161 | |
| Stop | |  | M22-XDL-W-X0 218160 | | M22-XDLH-W-X0 218162 | |
| Start | |  | M22-XDL-G-X1 218295 | | M22-XDLH-G-X1 218341 | |
| Start | |  | M22-XDL-W-X1 218296 | | M22-XDLH-W-X1 218342 | |
| Start | |  | M22-XDL-G-X2 218297 | | M22-XDLH-G-X2 218343 | |
| Start | |  | M22-XDL-W-X2 218301 | | M22-XDLH-W-X2 218344 | |
| Increase | |  | M22-XDL-W-X4 218302 | | M22-XDLH-W-X4 218345 | |
| Decrease | |  | M22-XDL-W-X5 218303 | | M22-XDLH-W-X5 218346 | |
| Reset | |  | M22-XDL-B-X6 218304 | | M22-XDLH-B-X6 218347 | |
| Direction of movement | |  | M22-XDL-W-X7 218305 | | M22-XDLH-W-X7 218348 | |
| Direction of movement | |  | M22-XDL-W-X8 218306 | | M22-XDLH-W-X8 218349 | |
| Manual | |  | M22-XDL-W-X9 218307 | | M22-XDLH-W-X9 218350 | |
| Automatic |  | M22-XDL-W-X10 218308 | | M22-XDLH-W-X10 218351 | | |
| Inch |  | M22-XDL-W-X11 218309 | | M22-XDLH-W-X11 218352 | | |
| Unlock |  | M22-XDL-W-X12 218310 | | M22-XDLH-W-X12 218353 | | |
| Unclamp |  | M22-XDL-W-X13 218311 | | M22-XDLH-W-X13 218354 | | |
| Clamp |  | M22-XDL-W-X14 218312 | | M22-XDLH-W-X14 218355 | | |
| Release |  | M22-XDL-W-X15 218313 | | M22-XDLH-W-X15 218356 | | |
| Liquid |  | M22-XDL-W-X16 218314 | | M22-XDLH-W-X16 218357 | | |
| Klaxon |  | M22-XDL-W-X17 218315 | | M22-XDLH-W-X17 218358 | | |



Flush Mounting Panels, Shrouds

Moeller HPL0211-2004/2005

| | Degree of protection | Mounting locations | Colour | Cable entry knockouts | Type Article no. | Price See Price List | Std. pack |
|---|----------------------|--------------------|---|-----------------------|------------------|----------------------|-----------|
| | | Qty. | | Qty. × M20 | | | |
| Flush mounting panels | | | | | | | |
| No legend plates possible with vertical arrangements | | | | | | | |
| Aluminium with yellow paint finish for Emergency-Stop actuator | IP65 ¹⁾ | 1 |  | RAL 1004 | – | M22-EY1 216542 | 5 off |
| Aluminium light anodised, including M22-XE... | IP65 ¹⁾ | 1 |  | RAL 7035 | – | M22-E1 216541 | |
| | | 2 | | | – | M22-E2 216543 | |
| | | 3 | | | – | M22-E3 216544 | |
| | | 4 | | | – | M22-E4 216545 | |
| | | 5 | | | – | M22-E5 216546 | |
| | IP40 ¹⁾ | 6 | | – | M22-E6 216547 | 1 off | |
| Shrouds | | | | | | | |
| Plastic, light grey | | | | | | | |
| Degree of protection only in connection with M22-E... flush mounting plates | | | | | | | |
| – | IP55 ²⁾ | 1 |  | RAL 7035 | 3 | M22-H1 216548 | 1 off |
| – | IP55 ²⁾ | 2 | | RAL 7035 | 4 | M22-H2 216549 | |
| – | | 3 | | | 4 | M22-H3 216550 | |
| – | | 4 | | | 4 | M22-H4 216551 | |
| – | IP40 ²⁾ | 5 | | RAL 7035 | 5 | M22-H5 216552 | |
| – | | 6 | | | 6 | M22-H6 216553 | |
| Set of plaster keys | | | | | | | |
| Comprising two plaster keys as mounting aids | | | | | | | |
| For plastering of shrouds | | | | | | | |
|  | | | | | | M22-UPE 216554 | 1 off |





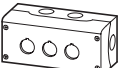
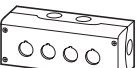
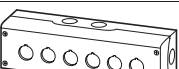

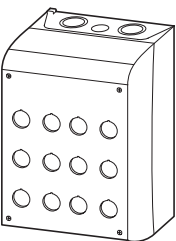

Notes

- ¹⁾ Only in conjunction with a corresponding enclosure and when properly mounted.
²⁾ Only in connection with M22-E...






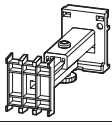
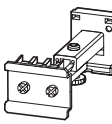
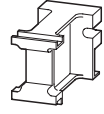
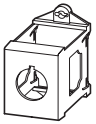


Surface Mounting Enclosures

Moeller HPL0211-2004/2005





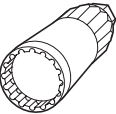
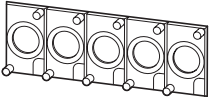
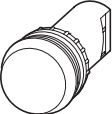
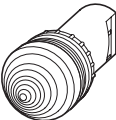
| | Mounting locations | Cable entry knockouts | | Colour | Type Article no. | Price See Price List | Std. pack |
|--|------------------------------|-----------------------|-------------|---------------------|--|----------------------|-----------|
| | | Bottom | Sides | | | | |
| | Qty. | Qty. × M... | Qty. × M... | | | | |
| Surface mounting enclosures, IP67, 69K | | | | | | | |
| With high-grade steel screws Enclosure base: anthracite (RAL 9005) | | | | | | | |
| totally insulated | | | | | | | |
|  | For Emergency-Stop actuators | 1 | 2 × 16 | 1 × 20 2 × 25/20 |  RAL 1004 | M22-IY1 216536 | 1 off |
| | | 1 | 2 × 16 | 1 × 20 2 × 25/20 |  RAL 7035 | M22-I1 216535 | |
|  | | 2 | 2 × 20 | 1 × 20 2 × 25/20 | | M22-I2 216537 | |
|  | | 3 | 2 × 20 | 2 × 20 2 × 25/20 | | M22-I3 216538 | |
|  | | 4 | 2 × 20 | 2 × 20 2 × 25/20 | | M22-I4 216539 | |
|  | | 6 | 2 × 20 | 2 × 20 2 × 25/20 | | M22-I6 216540 | |
| M20 connecting screw, IP67 | | | | | | | |
| For connection of any M22-I... surface mounting enclosures Fitting by M20 cable entry from the side | | | | | | | |
|  | | - | - | - | - | M22-XI 229162 | 25 off |
| Surface mounting enclosure, IP55 | | | | | | | |
| Including mounting plate for base fixing Enclosure base: anthracite (RAL 9005) | | | | | | | |
| totally insulated | | | | | | | |
|  | | 12 | 2 × 32/25 | 2 × 20 4 × 32/25 |  RAL 7035 | M22-I12 222688 | 1 off |




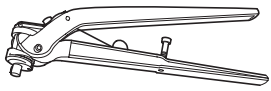
| For use with | Colour | Type Article no. | Price | Std. pack |
|--|---|---------------------|----------------------|-----------|
| Front ring: gold (24 carat) | | | | |
| Front ring not supplied individually: To order exclusively via Moeller Sales Offices as M22-Combination-* (customised complete units). | | | | |
|  | - | - | - | |
| | | M22-FR-AU 274150 | | 1 off |
| Blanking plugs, IP67, IP69K | | | | |
| Round style For closing off of spare mounting locations | | | | |
|  | - | ● RAL 9005 | M22S-B 216390 | 50 off |
| | - | ● RAL 9005 | M22S-B-GVP 216391 | 250 off |
| | - | ● RAL 7035 | M22-B 216388 | 50 off |
| | - | ● RAL 7035 | M22-B-GVP 216389 | 250 off |
| Actuator diaphragms for IP67, IP69K, silicone | | | | |
| Transparent version for aggravated environmental conditions and for use in the food industry, Do not use in conjunction with M22S-ST legend plate mount, since degree of protection cannot be guaranteed | | | | |
|  | M22(S)-D(R)-... M22(S)-DL-..., M22(S)-DRL-... M22(S)-L(C)-... | - | M22-T-D 216395 | 10 off |
|  | M22(S)-DDL... | - | M22-T-DD 216396 | 10 off |
| Protective diaphragm, silicone | | | | |
| Prevents ingress of dirt and dust into the key opening | | | | |
|  | M22-WS... | - | M22-XWS 231275 | 5 off |
| Telescopic clip | | | | |
| For equalization of the mounting depth of rear mounting devices in CI enclosures, and in cabinets with mounting depths from 115 – 155 mm. Steplessly adjustable, screw- and snap fixing (top-hat rail IEC/EN 60715). Maximally 10 × M22-TC admissible per enclosure, of which 5 with stay-put actuators. Do not use in conjunction with Emergency-Stop actuator. | | | | |
|  | Three contact/LED elements with base fixing, Including centring adapter | - | M22-TC 216398 | 10 off |
|  | With top-hat rail IEC/EN 60715, width 44 mm For mounting of EASY, FAZ, PKZ, DIL etc. weighing ≤ 0.3 kg | - | M22-TA 226161 | 1 off |
| Extension | | | | |
|  | Telescopic clip for a mounting depth up to 205 mm | - | M22-TCV 225527 | 5 off |
| IVS mounting rail adapter | | | | |
|  | Top-hat rail IEC/EN 60715 for front fixing | - | M22-IVS 216400 | 1 off |









Moeller HPL0211-2004/2005

| For use with | Colour | Type Article no. | Price | Std. pack |
|--|----------------|----------------------|-------|-----------|
| Plunger bridge | | | | |
| For actuating the middle contact element of the M22-W...3 non-illuminated 3-position selector switch actuator | | | | |
|  Middle contact of 3-position selector switch, non-illuminated, (1 off) black | - - | M22-XW 216405 | | 10 off |
| Guard ring, IP66 | | | | |
| To protect against accidental operation | | | | |
|  For pushbutton and selector switch actuators | - - | M22-XGWK 231274 | | 5 off |
| Threaded ring | | | | |
| M22 × 1.5 mm | | | | |
|  - | - - | M22-GR 216401 | | 50 off |
| - | - - | M22-GR-GVP 216404 | | 500 off |
| Set of adapter rings 30/22.3 mm, IP67, IP69K | | | | |
| Black, consisting of adapter ring and fixing nut | | | | |
|  For fitting of Ø 22.3 devices into Ø 30.5 mm holes. Degree of protection is determined by the front element. | ● - | M22S-R30 216408 | | 10 off |
| Combination box spanner | | | | |
|  Threaded ring, can be fitted on to electric screwdriver | - - | M22-MS 216402 | | 5 off |
| Fixing plate | | | | |
|  M22-H... shrouds to the M22-E... flush mounting panel for up to 5 mounting locations | ● - | M22-XE5 218945 | | 1 off |
| Compact indicator light, IP67, 69K | | | | |
| Without light elements For filament and neon bulbs and LEDs up to 2.4 W | | | | |
| Flush, with BA 9s lamp socket | | | | |
|  - | ○ - | M22-LC-W 216907 | | 10 off |
| - | ● - | M22-LC-R 216908 | | |
| - | ● - | M22-LC-G 216909 | | |
| - | ● - | M22-LC-Y 216910 | | |
| - | ● - | M22-LC-B 216911 | | |
| - | - Without lens | M22-LC-X 216912 | | |
| Extended, with BA 9s lamp socket | | | | |
|  - | ○ - | M22-LCH-W 216914 | | 10 off |
| - | ● - | M22-LCH-R 216915 | | |
| - | ● - | M22-LCH-G 216916 | | |
| - | ● - | M22-LCH-Y 216917 | | |
| - | ● - | M22-LCH-B 216918 | | |



| For use with | | Type Article no. | Price | Std. pack |
|---|--|-----------------------------|-------|-----------|
| Bulb extractor | | | | |
|  | M22-LC(H)... | M22-LG 216403 | | 5 off |
| Notching tool | | | | |
| Punching tool to produce the cutout for the anti-rotation lug to IEC/EN 60947-5-1 | | | | |
|  | St 37 sheet steel, max. 3 mm thick VA high-grade steel max. 1.5 mm thick, | BA/C-NZ-22 028144 | | 1 off |

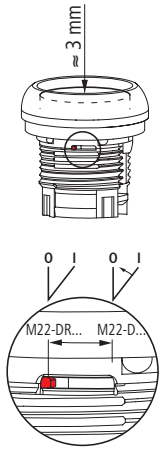


| Lifespan to EN 60064 at $T_a = +25\text{ °C}$ t_{mean} (AC) h | | Colour | Type Article no. | Price | Std. pack |
|--|------------------------|--------|---|----------------------------|-----------|
| BA 9s filament bulbs for Compact indicator lights | | | | | |
| High-grade versions from selected manufacturers | | | | | |
|  | 110 – 130 V/2.4 W | 2000 | – | A22-GL130 261361 | 100 off |
| | 24 V/2.0 W | 5000 | – | A22-GL24 261360 | 100 off |
| BA 9s single-chip LEDs for Compact indicator lights | | | | | |
| For AC and DC (positive pole connected to X1), protected against polarity reversal, integral suppressor circuit up to 1500 V | | | | | |
|  | 18 – 30 V AC/DC, 15 mA | 100000 |  | A22-LED-W 261362 | 10 off |
| | | |  | A22-LED-R 261364 | |
| | | |  | A22-LED-G 261363 | |
| | | |  | A22-LED-Y 261365 | |

Moeller HPL0211-2004/2005

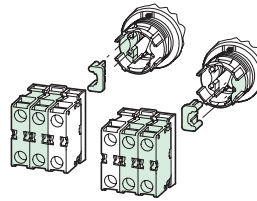
Programmable stay-put/spring-return pushbutton function

M22-DR



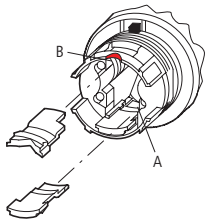
Plunger bridge for the middle contact on 3-position selector switches

M22(S)-W...3-...



For conversion between stay-put and spring-return functions and for changing the key withdrawability

M22-XC...



Coding adapters

M22-XC-Y



M22-XC-R



2-position selector switch actuators

| ↙ ↘ | O | I | B |
|-------|---|---|---|
| | | | |
| ↙ 60° | ✓ | - | ✓ |
| ↙ 50° | ✓ | ✗ | ✗ |
| ↘ 40° | ✓ | ✗ | ✗ |

✓ = Key withdrawable
✗ = Key not withdrawable

3-position selector switch actuators

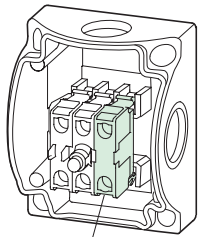
| ↙ ↘ | I | O | II | |
|---------|---|---|----|---|
| | | | A | B |
| 60 ↘ 60 | - | ✓ | ✓ | ✓ |
| 50 ↘ 50 | ✗ | ✓ | ✓ | ✗ |
| 60 ↘ 50 | - | ✓ | ✓ | ✗ |
| 50 ↘ 60 | ✗ | ✓ | - | ✓ |
| 40 ↙ 40 | ✗ | ✓ | ✗ | ✗ |
| 60 ↘ 40 | - | ✓ | ✓ | ✗ |
| 50 ↘ 40 | ✗ | ✓ | ✗ | ✗ |
| 40 ↙ 60 | ✗ | ✓ | - | ✓ |
| 40 ↙ 50 | ✗ | ✓ | ✗ | ✗ |



LED series (resistor) elements

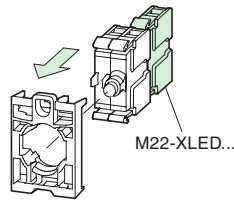
M22-XLED...

Surface mounting enclosure



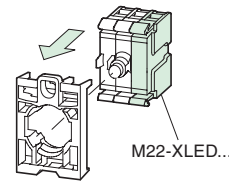
M22-XLED...

Flush mounting at the rear



M22-XLED...

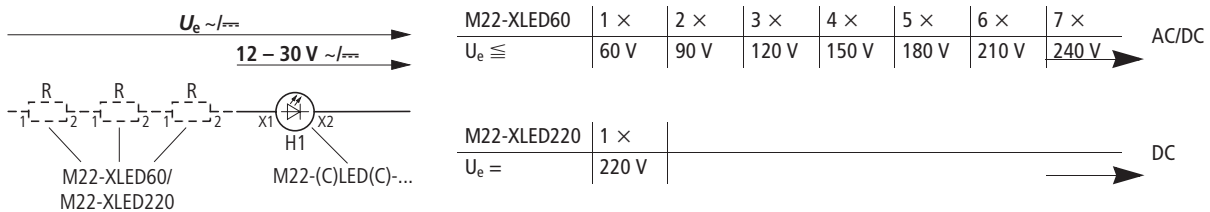
Flush mounting at the side



M22-XLED...

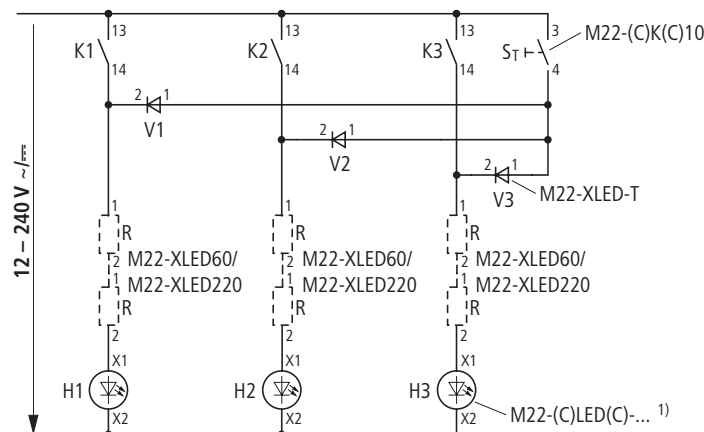
LED resistor element

M22-XLED60/M22-XLED220



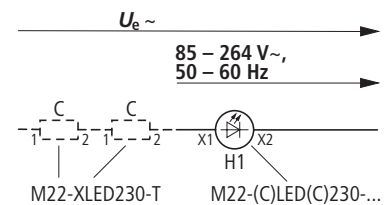
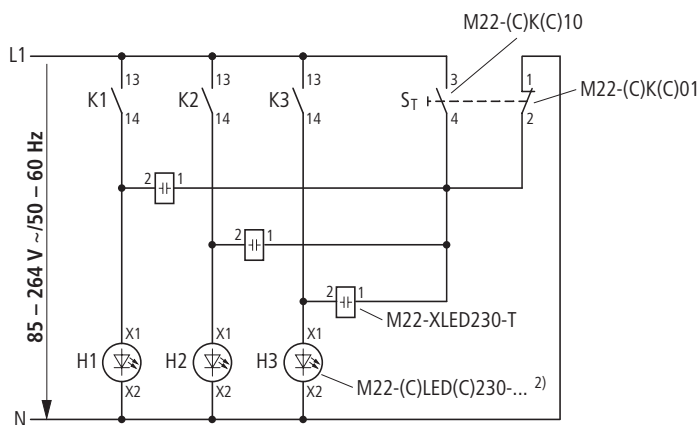
LED test element

M22-XLED-T

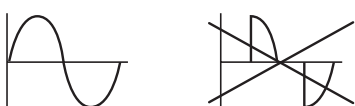


- ¹⁾ Only for elements 12 – 30 V
- ²⁾ For elements 85 – 264 V

M22-XLED230-T



| | | |
|---------------|--------|--------|
| M22-XLED230-T | 1 × | 2 × |
| $U_e \leq$ | 400 V~ | 500 V~ |



Moeller HPL0211-2004/2005

Control Circuit Devices
RMQ-Titan



MOELLER

Bestellangaben für beliebige Taster-Leuchtmelder-Kombinationen, F0315
Ordering data for combinations of push-button and indicator light, F0315
Commande de combinaisons de boutons et de voyants lumineux, F0315

Auftrags-Nr.:
Order number:
N° de commande :

Kunde:
Customer:
Client :

Position:
Position:
Position:

Kundenspez.-Nr.:
Customer specific no.:
N° client :

Moeller Haus:
Office:
Bureau :

Bearbeiter:
Contact:
Employé :

Datum:
Date:
Date :

Lage der Einbaustellen / Position of mounting locations / Disposition des perçages

Aufbaugehäuse / Surface mounting enclosure / Boîtier à monter en saillie

Einbautableu / Flush mounting plate / Plastron d'encastrement

RMQ16

M16-COMBINATION------
I8

E8
E8-SW

Elektronik-Leiterplatte für Busfähigkeit / Printed circuit board for bus communication / Carte de circuits imprimés pour raccordement au bus Suconet-K1

AS-Interface (AS-i) **ILP1** Einbaustellen / Mounting locations / Perçages G, H max. 1×E10/E01 **ELP1**

RMQ-M2C-ASI **RMQ-M2C-ASI**

SL-COMBINATION------

G
F
E
D
C
B
A

SL-...B-...

SL-F...

RMQ-Titan®

M22-COMBINATION------
 M22-FR-AU Frontring vergoldet / Gold-plated front ring / Colerette dorée
M22-IY1 **M22-I1**
-I2
-I3
-I4
-I6

M22-E1
M22-E2
M22-E3
M22-E4
M22-E5
M22-E6

Nicht für M22...-WR(K)4,-D4, J4 / Not for M22...-WR(K)4,-D4, J4 / Non pour M22...-WR(K)4,-D4, J4

Elektronik-Leiterplatte für Busfähigkeit / Printed circuit board for bus communication / Carte de circuits imprimés pour raccordement au bus

AS-Interface (AS-i) **RMQ-M1C-ASI**

| Einbaustelle Mounting location Emplacement | Frontelement Front element Tête de commande | + | Tastenplatte/Linse Button plate/lens Etiquette/Verrine | Schildträger Label mount Plastron | + | Einlegeschild Insert plate Etiquette | Funktionselement/Kontaktkonfiguration Anordnung nach EN 50013 Function component/Contact configuration to EN 50013 Bloc de fonction/Disposition des contacts selon EN 50013 |
|--|---|---|--|---|---|--|--|
| | Schriftgröße/Text Letter height/Text Hauteur des caractères/Texte | | | Schriftgröße/Text Letter height/Text Hauteur des caractères/Texte | | | |
| A | ...mm/ | | | ...mm/ | | | |
| B | ...mm/ | | | ...mm/ | | | |
| C | ...mm/ | | | ...mm/ | | | |
| D | ...mm/ | | | ...mm/ | | | |
| E | ...mm/ | | | ...mm/ | | | |
| F | ...mm/ | | | ...mm/ | | | |
| G | ...mm/ | | | ...mm/ | | | |
| H | ...mm/ | | | ...mm/ | | | |

RMQ-...ASI

Ein-, Ausgangskonfiguration
Input, Output configuration
Configuration d'entrée/sortie

I/Q-, ID-Code: 7.0
Slave-Adr. 0...31 (Default = 0):

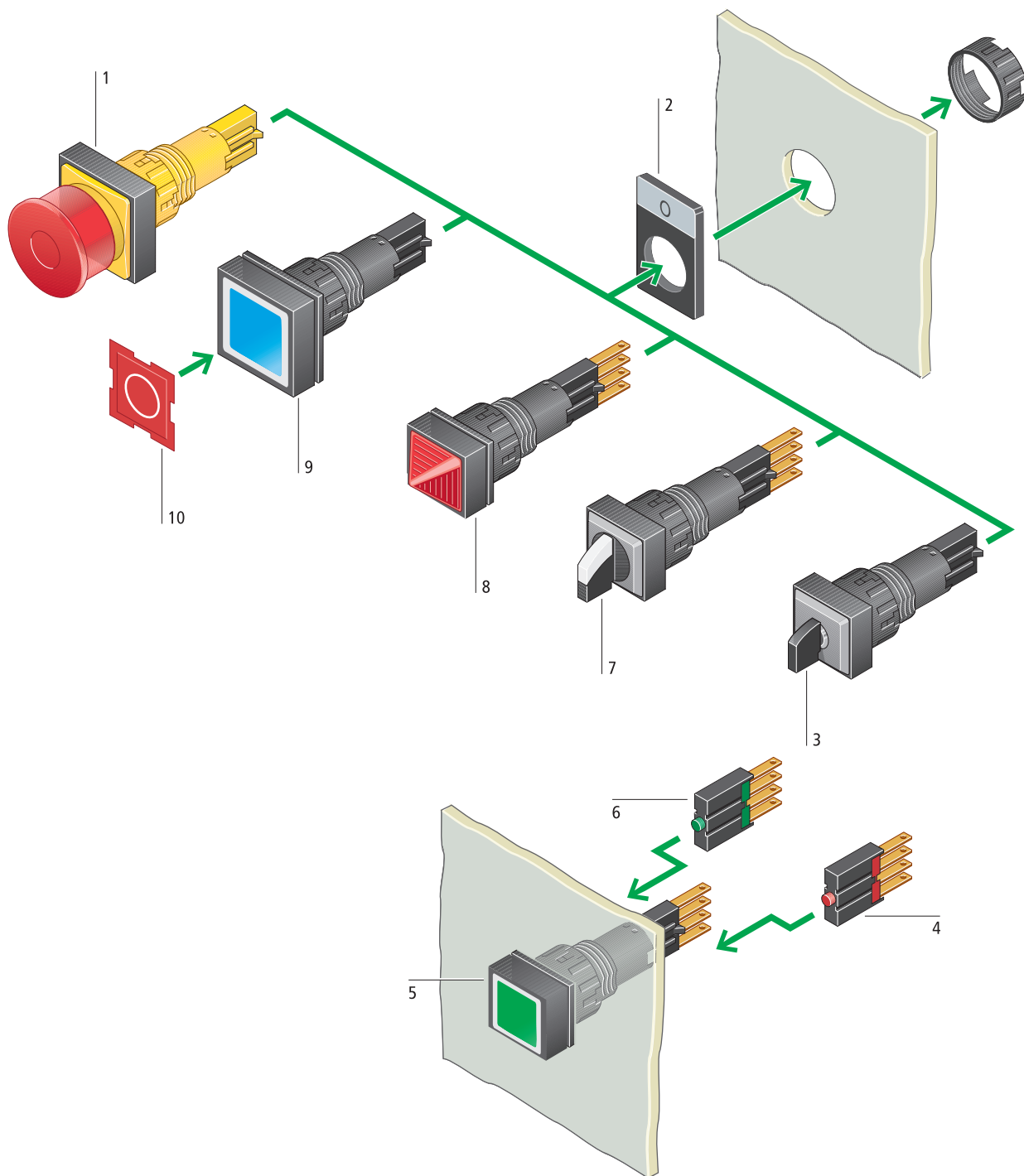
| | | | | |
|-------------|-------|------|--------|------|
| data bit D0 | | I1 → | | Q1 → |
| data bit D1 | INPUT | I2 → | OUTPUT | Q2 → |
| data bit D2 | | I3 → | | Q3 → |
| data bit D3 | | I4 → | | Q4 → |

IEC/EN 60447 USA/CANADA



Start
Start/Stop
Stop

M22(S)-B

03/04 F0315 FD © 2004 by Moeller GmbH



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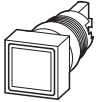

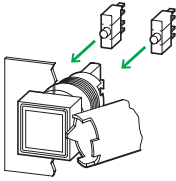















| | | |
|---|---|---|
| <p>Emergency-Stop actuators 1</p> <p>Tamper-proof according to ISO 13850/EN 418</p> <p>Illuminated and non-illuminated</p> <p>Legend plates with and without inscription</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>→ 2/57</p> | <p>Break contact element (red) 4</p> <p>With blade terminal</p> <p>Universal contacts suitable for use with electronic devices</p> <p>Positive opening safety function according to IEC/EN 60947-5-1</p> <p>→ 2/51</p> | <p>Indicator lights 8</p> <p>Flush and conical versions</p> <p>Built-in lamp socket</p> <p>For filament bulbs and LEDs</p> <p>Colours: white, green, red, yellow, blue</p> <p>→ 2/56</p> |
| <p>Label mounts 2</p> <p>For insert plates</p> <p>Colour: light grey, black, yellow</p> <p>Insert plates with and without inscription</p> <p>→ 2/62</p> | <p>Illuminated pushbuttons 5</p> <p>Spring-return and stay-put</p> <p>Replaceable insert plates</p> <p>Colour: white, green, red, yellow, blue</p> <p>→ 2/51</p> | <p>Pushbutton actuators 9</p> <p>Spring-return and stay-put</p> <p>Replaceable button plates</p> <p>Colours: white, green, red, yellow, blue, black</p> <p>→ 2/50</p> |
| <p>Key-operated actuators 3</p> <p>2 and 3 positions</p> <p>Switching angle 45°</p> <p>Spring-return and stay-put</p> <p>Various lock mechanisms</p> <p>→ 2/52</p> | <p>Make contact element (green) 6</p> <p>With blade terminal</p> <p>Universal contacts suitable for use with electronic devices</p> <p>→ 2/51</p> | <p>Button plates/Insert plates 10</p> <p>Wear-resistant button plates for pushbutton actuators</p> <p>Transparent insert plates for illuminated pushbutton actuators and indicator lights</p> <p>With and without inscription</p> <p>With standard texts and symbols</p> <p>→ 2/58</p> |
| <p>Selector switch actuators 7</p> <p>2 and 3 positions</p> <p>Switching angle 45°</p> <p>Spring-return and stay-put</p> <p>Illuminated selector switch actuators with built-in lamp sockets</p> <p>Colours: white, green, red</p> <p>→ 2/52</p> | | |






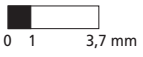

Product features


- Front dimension and minimum grid dimensions 18 × 18 mm or 25 × 25 mm
- Mounting diameter 16.2 mm to EN 50007
- Degree of protection IP65
- For switching differing potentials
- Suitable for use with electronic devices to IEC/EN 61131-2
- Technical data to IEC/EN 60947-5-1
- Approved throughout the world



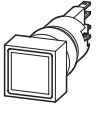

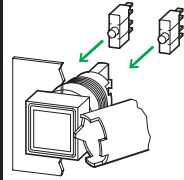





















| | |  Square style Front dimensions | | | | |
|--|---|---|--------------------|----------------------|-----------|--|
| | | 18 × 18 mm | 25 × 25 mm | | | |
| | Colour of button plate | Type Article no. | Type Article no. | Price See Price List | Std. pack | Notes |
| Pushbutton actuators, IP65 | | | | | | |
| Spring-return  |  | Q18D-11 086332 | Q25D-11 090471 | | 10 off |  Accessories Assembly aids and accessories Page → 2/64 |
| |  | Q18D-10 086299 | Q25D-10 090421 | | | |
| |  | Q18D-20 054041 | Q25D-20 054038 | | | |
| |  | Q18D-19 054040 | Q25D-19 054039 | | | |
| |  | Q18D-SW 086788 | Q25D-SW 087230 | | | |
| |  | Q18D-WS 086752 | Q25D-WS 086808 | | | |
| |  | Q18D-GN 086450 | Q25D-GN 086409 | | | |
| |  | Q18D-RT 086713 | Q25D-RT 086444 | | | |
| |  | Q18D-GE 086417 | Q25D-GE 086343 | | | |
| |  | Q18D-BL 086384 | Q25D-BL 086328 | | | |
| | Without | Q18D-X 093623 | Q25D-X 093624 | | | |
| Stay-put | | | | | | |
| |  | Q18DR-SW 086269 | Q25DR-SW 088739 | | 10 off | |
| |  | Q18DR-WS 086243 | Q25DR-WS 088701 | | | |
| |  | Q18DR-GN 086176 | Q25DR-GN 088531 | | | |
| |  | Q18DR-RT 086209 | Q25DR-RT 088627 | | | |
| |  | Q18DR-GE 090482 | Q25DR-GE 088404 | | | |
| |  | Q18DR-BL 090241 | Q25DR-BL 088110 | | | |
| | Without | Q18DR-X 093625 | Q25DR-X 093626 | | | |

| Contacts M = Make, B = Break ⊕ = Positive opening safety function to IEC/EN 60947-5-1 | Circuit symbol ¹⁾ | Circuit symbol | Colour | Type Article no. | Price See Price List | Std. pack |
|---|---|---|---|------------------|----------------------|-----------|
| Contact elements | | | | | | |
| Admissible operating voltage: 5 – 250 V | | | | | | |
|  1 M |  |  |  | E10 090351 | | 50 off |
| 1 B ⊕ |  |  |  | E01 090401 | | 50 off |






Notes ¹⁾ The graphic symbol has the following meaning:
 x = Sequence number on front element
 y = Function number on contact element


Moeller HPL0211-2004/2005

| Lens | Square style Front dimensions | | Price See Price List | Std. pack | Notes |
|--|---|-----------------------------------|-------------------------------|-----------|---|
| | 18 × 18 mm Type Article no. | 25 × 25 mm Type Article no. | | | |
| Illuminated pushbuttons, IP65 | | | | | |
| Spring-return Without filament bulb  |  | Q18LT-WS 089202 | Q25LT-WS 086262 | 10 off |  Accessories Assembly aids and accessories Page → 2/64 |
| |  | Q18LT-GN 089067 | Q25LT-GN 086206 | | |
| |  | Q18LT-RT 089776 | Q25LT-RT 086238 | | |
| |  | Q18LT-GE 088808 | Q25LT-GE 086173 | | |
| |  | Q18LT-BL 088764 | Q25LT-BL 090479 | | |
| With filament bulb, 24 V |  | Q18LT-WS/WB 088561 | Q25LT-WS/WB 090226 | 10 off | |
| |  | Q18LT-GN/WB 088509 | Q25LT-GN/WB 089190 | | |
| |  | Q18LT-RT/WB 088537 | Q25LT-RT/WB 089998 | | |
| |  | Q18LT-GE/WB 088449 | Q25LT-GE/WB 089137 | | |
| |  | Q18LT-BL/WB 088338 | Q25LT-BL/WB 089102 | | |
| Stay-put Without filament |  | Q18LTR-WS 088123 | Q25LTR-WS 087232 | 10 off | |
| |  | Q18LTR-GN 087831 | Q25LTR-GN 086812 | | |
| |  | Q18LTR-RT 087918 | Q25LTR-RT 086840 | | |
| |  | Q18LTR-GE 087764 | Q25LTR-GE 086784 | | |
| |  | Q18LTR-BL 086813 | Q25LTR-BL 086739 | | |
| With filament bulb, 24 V |  | Q18LTR-WS/WB 086708 | Q25LTR-WS/WB 086447 | 10 off | |
| |  | Q18LTR-GN/WB 086413 | Q25LTR-GN/WB 086380 | | |
| |  | Q18LTR-RT/WB 086448 | Q25LTR-RT/WB 086412 | | |
| |  | Q18LTR-GE/WB 086382 | Q25LTR-GE/WB 086346 | | |
| |  | Q18LTR-BL/WB 086348 | Q25LTR-BL/WB 086330 | | |

Control Circuit Devices
RMQ16



| Contacts M = Make, B = Break ⊕ = Positive opening safety function to IEC/EN 60947-5-1 | Circuit symbol ¹⁾ | Circuit symbol | Colour | Type Article no. | Price See Price List | Std. pack |
|---|------------------------------|---|---|----------------------|-------------------------|-----------|
| Contact elements Admissible operating voltage: 5 – 250 V | | | | | | |
|  | 1 M |  |  | E10 090351 | | 50 off |
| | 1 B ⊕ |  |  | E01 090401 | | 50 off |

Notes
¹⁾ The graphic symbol has the following meaning:
 x = Sequence number on front element
 y = Function number on contact element

2/52 Selector Switch Actuators, Key-Operated Actuators 2 Positions

Moeller HPL0211-2004/2005

Control Circuit Devices
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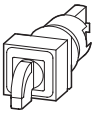
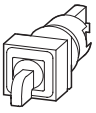


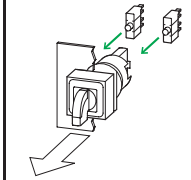
| | | Function: | Key withdrawable in position | Colour | Type Article no. | Type Article no. | Price See Price List | Std. pack | Notes | |
|---|---|-------------------|------------------------------|--------|------------------|----------------------------|----------------------------|-----------|-------|---|
| | | ↳ = Stay-put | | | | | | | | |
| | | ↳ = Spring-return | | | | | | | | |
| Selector switch actuators, 2 positions, IP65 | | | | | | | | | | |
| With VS anti-rotation feature | | | | | | | | | | |
| | ↳ | 45° | - | - | ○ | Q18WK1 036515 | Q25WK1 036599 | 5 off | | |
| | ↳ | 45° | - | - | ○ | Q18WK1R 036598 | Q25WK1R 036600 | 5 off | | |
| Key-operated actuators, 2 positions, IP65 | | | | | | | | | | |
| With 1 key and VS anti-rotation feature | | | | | | | | | | |
| | ↳ | 45° | 0 | - | ● | Q18S1 038806 | Q25S1 038773 | 5 off | | Accessories Assembly aids and accessories → 2/64 |
| | ↳ | 45° | 0 | I | ● | Q18S1R 038805 | Q25S1R 038772 | | | |
| | ↳ | 45° | 0 | - | ● | Q18S1R-A1 072312 | Q25S1R-A1 072376 | | | |
| Other individual lock mechanisms (each colour corresponds to a specific lock mechanism) | ↳ | 45° | 0 | - | ● | Q18S1-GN 062148 | Q25S1-GN 062150 | | | |
| | ↳ | 45° | 0 | I | ● | Q18S1R-GN 062151 | Q25S1R-GN 062108 | | | |
| | ↳ | 45° | 0 | - | ● | Q18S1-RT 046841 | Q25S1-RT 046843 | | | |
| | ↳ | 45° | 0 | I | ● | Q18S1R-RT 046837 | Q25S1R-RT 046839 | | | |
| | ↳ | 45° | 0 | - | ○ | Q18S1-WS 046849 | Q25S1-WS 046851 | | | |
| | ↳ | 45° | 0 | I | ○ | Q18S1R-WS 046845 | Q25S1R-WS 046847 | | | |
| | ↳ | 45° | 0 | - | ● | Q18S1-BL 045959 | Q25S1-BL 046835 | | | |
| | ↳ | 45° | 0 | I | ● | Q18S1R-BL 062814 | Q25S1R-BL 045502 | | | |

| Contacts | Circuit symbol ¹⁾ | Circuit symbol | Colour | Type Article no. | Price See Price List | Std. pack |
|---|------------------------------|----------------|--------|----------------------|----------------------|-----------|
| M = Make, B = Break ⊕ = Positive opening safety function to IEC/EN 60947-5-1 | | | | | | |
| Contact elements | | | | | | |
| Admissible operating voltage: 5 – 250 V | | | | | | |
| 1 M | | | ● | E10 090351 | | 50 off |
| 1 B ⊕ | | | ● | E01 090401 | | 50 off |

Notes ¹⁾ The graphic symbol has the following meaning:
 x = Sequence number on front element
 y = Function number on contact element

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



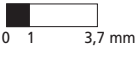
| | | Square style Front dimensions | | | | | | | | | |
|---|--|----------------------------------|------------|---------------------|---------------------|----------------------------|-----------|---------------------|---------------------|--------------------|--|
| | | 18 × 18 mm | 25 × 25 mm | Type Article no. | Type Article no. | Price See Price List | Std. pack | Notes | | | |
| Function: | | Key withdrawable in position | | Colour | | | | | | | |
| ↙ = Stay-put ↘ = Spring-return | | | | | | | | | | | |
| Selector switch actuators, 3 positions, IP65 | | | | | | | | | | | |
| With VS anti-rotation feature | | | | | | | | | | | |
|  | 45° | ↔ | 45° | - | - | - | ○ | Q18WK3 072308 | Q25WK3 072372 | 5 off | |
| | 45° | ↘ | 45° | - | - | - | ○ | Q18WK3R 072309 | Q25WK3R 072373 | | |
| | 45° | ↘ | 45° | - | - | - | ○ | Q18WK3R1 072310 | Q25WK3R1 072374 | | |
| | 45° | ↔ | 45° | - | - | - | ○ | Q18WK3R2 072311 | Q25WK3R2 072375 | | |
| Key-operated actuators, 3 positions, IP65 | | | | | | | | | | | |
| With VS anti-rotation feature | | | | | | | | | | | |
|  | 45° | ↔ | 45° | - | 0 | - | ● | Q18S3 072313 | Q25S3 072377 | 5 off | |
| | 45° | ↘ | 45° | I | 0 | II | ● | Q18S3R 072314 | Q25S3R 072378 | | |
| | 45° | ↘ | 45° | - | 0 | - | ● | Q18S3R-A1 072315 | Q25S3R-A1 072379 | | |
| | 45° | ↘ | 45° | I | 0 | - | ● | Q18S3R-A2 072316 | Q25S3R-A2 072380 | | |
| | 45° | ↘ | 45° | - | 0 | II | ● | Q18S3R-A3 072317 | Q25S3R-A3 072381 | | |
| | 45° | ↘ | 45° | I | 0 | - | ● | Q18S3R-A4 072318 | Q25S3R-A4 072382 | | |
| | 45° | ↘ | 45° | - | 0 | - | ● | Q18S3R-A5 072319 | Q25S3R-A5 072383 | | |
| | 45° | ↔ | 45° | - | 0 | II | ● | Q18S3R-A6 072320 | Q25S3R-A6 072384 | | |
| | 45° | ↔ | 45° | - | 0 | - | ● | Q18S3R-A7 072321 | Q25S3R-A7 072385 | | |
| | Additional individual lock mechanisms (each colour corresponds to a specific lock mechanism) | 45° | ↔ | 45° | - | 0 | - | ● | Q18S3-GN 062149 | Q25S3-GN 062153 | |
| 45° | | ↘ | 45° | I | 0 | II | ● | Q18S3R-GN 062152 | Q25S3R-GN 062147 | | |
| 45° | | ↔ | 45° | - | 0 | - | ● | Q18S3-RT 046842 | Q25S3-RT 046844 | | |
| 45° | | ↘ | 45° | I | 0 | II | ● | Q18S3R-RT 046838 | Q25S3R-RT 046840 | | |
| 45° | | ↔ | 45° | - | 0 | - | ○ | Q18S3-WS 046850 | Q25S3-WS 046852 | | |
| 45° | | ↘ | 45° | I | 0 | II | ○ | Q18S3R-WS 046846 | Q25S3R-WS 046848 | | |
| 45° | | ↔ | 45° | - | 0 | - | ● | Q18S3-BL 046368 | Q25S3-BL 046836 | | |
| 45° | | ↘ | 45° | I | 0 | II | ● | Q18S3R-BL 064430 | Q25S3R-BL 045646 | | |





Accessories
Assembly aids and accessories
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Control Circuit Devices
RMQ16



| | | Contacts | Circuit symbol ¹⁾ | Circuit symbol | Colour | Type Article no. | Price See Price List | Std. pack |
|---|-------|---|---|---|--------|---------------------|----------------------------|-----------|
| | | M = Make, B = Break ⊕ = Positive opening safety function to IEC/EN 60947-5-1 | | | | | | |
| Contact elements | | | | | | | | |
| Admissible operating voltage: 5 – 250 V | | | | | | | | |
|  | 1 M | |  |  | ● | E10 090351 | | 50 off |
| | 1 B ⊕ | |  |  | ● | E01 090401 | | 50 off |

Notes
¹⁾ The graphic symbol has the following meaning:
 x = Sequence number on front element
 y = Function number on contact element



| Function: | Colour of thumb-grip | Type Article no. | Type Article no. | Price See Price List | Std. pack | Notes |
|-----------------------------------|----------------------|------------------|------------------|----------------------|-----------|-------|
| ↙ = Stay-put ↘ = Spring-return | | | | | | |

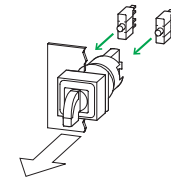
Square style
Front dimensions

18 × 18 mm 25 × 25 mm

Illuminated selector switch actuators, 2 positions, IP65

With VS anti-rotation feature
Without filament bulb

| | | | | | | | |
|--|---|---|-----|---|------------------------------|------------------------------|-------|
| | – | ↘ | 45° | ○ | Q18LWK1-WS 040349 | Q25LWK1-WS 040658 | 5 off |
| | – | ↘ | 45° | ● | Q18LWK1-RT 039337 | Q25LWK1-RT 040657 | |
| | – | ↘ | 45° | ● | Q18LWK1-GN 039336 | Q25LWK1-GN 040656 | |
| | – | ↙ | 45° | ○ | Q18LWK1R-WS 040376 | Q25LWK1R-WS 040661 | |
| | – | ↙ | 45° | ● | Q18LWK1R-RT 040351 | Q25LWK1R-RT 040660 | |
| | – | ↙ | 45° | ● | Q18LWK1R-GN 040350 | Q25LWK1R-GN 040659 | |



Accessories Page
Assembly aids and accessories → 2/64

Illuminated selector switch actuators, 3 positions, IP65

With VS anti-rotation feature
Without filament bulb

| | | | | | | | |
|--|-----|---|-----|---|-------------------------------|-------------------------------|-------|
| | 45° | ↕ | 45° | ○ | Q18LWK3-WS 072322 | Q25LWK3-WS 072358 | 5 off |
| | 45° | ↕ | 45° | ● | Q18LWK3-RT 072323 | Q25LWK3-RT 072359 | |
| | 45° | ↕ | 45° | ● | Q18LWK3-GN 072324 | Q25LWK3-GN 072360 | |
| | 45° | ↘ | 45° | ○ | Q18LWK3R-WS 072325 | Q25LWK3R-WS 072361 | |
| | 45° | ↘ | 45° | ● | Q18LWK3R-RT 072326 | Q25LWK3R-RT 072362 | |
| | 45° | ↘ | 45° | ● | Q18LWK3R-GN 072327 | Q25LWK3R-GN 072363 | |
| | 45° | ↘ | 45° | ○ | Q18LWK3R1-WS 072328 | Q25LWK3R1-WS 072364 | |
| | 45° | ↘ | 45° | ● | Q18LWK3R1-RT 072329 | Q25LWK3R1-RT 072365 | |
| | 45° | ↘ | 45° | ● | Q18LWK3R1-GN 072330 | Q25LWK3R1-GN 072366 | |
| | 45° | ↕ | 45° | ○ | Q18LWK3R2-WS 072331 | Q25LWK3R2-WS 072367 | |
| | 45° | ↕ | 45° | ● | Q18LWK3R2-RT 072332 | Q25LWK3R2-RT 072368 | |
| | 45° | ↕ | 45° | ● | Q18LWK3R2-GN 072333 | Q25LWK3R2-GN 072369 | |

| Contacts M = Make, B = Break ⊕ = Positive opening safety function to IEC/EN 60947-5-1 | Circuit symbol ¹⁾ | Circuit symbol | Colour | Type Article no. | Price See Price List | Std. pack |
|---|------------------------------|----------------|--------|------------------|----------------------|-----------|
|---|------------------------------|----------------|--------|------------------|----------------------|-----------|

Contact elements



Admissible operating voltage: 5 – 250 V

| | | | | | | |
|--|-------|--|--|----------------------|--|--------|
| | 1 M | | | E10 090351 | | 50 off |
| | 1 B ⊕ | | | E01 090401 | | 50 off |

Notes ¹⁾ The graphic symbol has the following meaning:

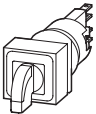












$\begin{matrix} |_{xy} \\ |_{xy} \end{matrix}$ x = Sequence number on front element
 y = Function number on contact element

Moeller HPL0211-2004/2005

| Function: | | Colour of thumb-grip | Square style Front dimensions | | Price See Price List | Std. pack | Notes |
|---|--|----------------------|----------------------------------|--------------------------------|-------------------------|-----------|-------|
|  = Stay-put  = Spring-return | | | 18 × 18 mm Type Article no. | 25 × 25 mm Type Article no. | | | |

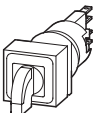
























Illuminated selector switch actuators, 2 positions, IP65

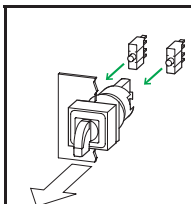
With VS anti-rotation feature
With filament bulb, 24 V

| | | | | | | | |
|---|---|---|-----|---|---------------------------------|---------------------------------|-------|
|  | - |  | 45° |  | Q18LWK1-WS/WB 038978 | Q25LWK1-WS/WB 040379 | 5 off |
| | - |  | 45° |  | Q18LWK1-RT/WB 038930 | Q25LWK1-RT/WB 040378 | |
| | - |  | 45° |  | Q18LWK1-GN/WB 038883 | Q25LWK1-GN/WB 040377 | |
| | - |  | 45° |  | Q18LWK1R-WS/WB 039335 | Q25LWK1R-WS/WB 040476 | |
| | - |  | 45° |  | Q18LWK1R-RT/WB 039248 | Q25LWK1R-RT/WB 040381 | |
| | - |  | 45° |  | Q18LWK1R-GN/WB 039247 | Q25LWK1R-GN/WB 040380 | |

Illuminated selector switch actuators, 3 positions, IP65

With VS anti-rotation feature
With filament bulb, 24 V

| | | | | | | | |
|---|-----|---|-----|---|----------------------------------|----------------------------------|-------|
|  | 45° |  | 45° |  | Q18LWK3-WS/WB 072334 | Q25LWK3-WS/WB 072346 | 5 off |
| | 45° |  | 45° |  | Q18LWK3-RT/WB 072335 | Q25LWK3-RT/WB 072347 | |
| | 45° |  | 45° |  | Q18LWK3-GN/WB 072336 | Q25LWK3-GN/WB 072348 | |
| | 45° |  | 45° |  | Q18LWK3R-WS/WB 072337 | Q25LWK3R-WS/WB 072349 | |
| | 45° |  | 45° |  | Q18LWK3R-RT/WB 072338 | Q25LWK3R-RT/WB 072350 | |
| | 45° |  | 45° |  | Q18LWK3R-GN/WB 072339 | Q25LWK3R-GN/WB 072351 | |
| | 45° |  | 45° |  | Q18LWK3R1-WS/WB 072340 | Q25LWK3R1-WS/WB 072352 | |
| | 45° |  | 45° |  | Q18LWK3R1-RT/WB 072341 | Q25LWK3R1-RT/WB 072353 | |
| | 45° |  | 45° |  | Q18LWK3R1-GN/WB 072342 | Q25LWK3R1-GN/WB 072354 | |
| | 45° |  | 45° |  | Q18LWK3R2-WS/WB 072343 | Q25LWK3R2-WS/WB 072355 | |
| | 45° |  | 45° |  | Q18LWK3R2-RT/WB 072344 | Q25LWK3R2-RT/WB 072356 | |
| | 45° |  | 45° |  | Q18LWK3R2-GN/WB 072345 | Q25LWK3R2-GN/WB 072357 | |



Accessories

Assembly aids and accessories






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| Contacts M = Make, B = Break ⊕ = Positive opening safety function to IEC/EN 60947-5-1 | Circuit symbol ¹⁾ | Circuit symbol | Colour | Type Article no. | Price See Price List | Std. pack |
|---|------------------------------|----------------|--------|------------------|----------------------|-----------|
|---|------------------------------|----------------|--------|------------------|----------------------|-----------|

Contact elements

Admissible operating voltage: 5 – 250 V


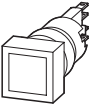





















| | | | | | | |
|---|-------|---|---|----------------------|--|--------|
|  | 1 M |  |  | E10 090351 | | 50 off |
| | 1 B ⊕ |  |  | E01 090401 | | 50 off |

Notes ¹⁾ The graphic symbol has the following meaning:




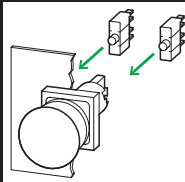










-  x = Sequence number on front element
-  y = Function number on contact element






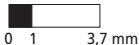





| | |  Square style Front dimensions | | | |
|---|---|---|------------------------------|----------------------------|-----------|
| | | 18 × 18 mm | 25 × 25 mm | | |
| Lens | | Type Article no. | Type Article no. | Price See Price List | Std. pack |
| Indicator lights, IP65 | | | | | |
| Flush | | | | | |
| Without filament bulb | | | | | |
|  |  | Q18LF-WS 088406 | Q25LF-WS 090228 | | 10 off |
| |  | Q18LF-GN 088337 | Q25LF-GN 090000 | | |
| |  | Q18LF-RT 088387 | Q25LF-RT 090198 | | |
| |  | Q18LF-GE 088303 | Q25LF-GE 089252 | | |
| |  | Q18LF-BL 088270 | Q25LF-BL 089229 | | |
| With filament bulb, 24 V | | | | | |
| |  | Q18LF-WS/WB 088059 | Q25LF-WS/WB 089151 | | 10 off |
| |  | Q18LF-GN/WB 087947 | Q25LF-GN/WB 088828 | | |
| |  | Q18LF-RT/WB 088001 | Q25LF-RT/WB 089104 | | |
| |  | Q18LF-GE/WB 087915 | Q25LF-GE/WB 088798 | | |
| |  | Q18LF-BL/WB 087860 | Q25LF-BL/WB 088761 | | |
| Conical | | | | | |
| Without filament bulb | | | | | |
|  |  | Q18LH-WS 088705 | Q25LH-WS 086263 | | 10 off |
| |  | Q18LH-GN 088629 | Q25LH-GN 086207 | | |
| |  | Q18LH-RT 088655 | Q25LH-RT 086241 | | |
| |  | Q18LH-GE 088585 | Q25LH-GE 090481 | | |
| |  | Q18LH-BL 088560 | Q25LH-BL 090428 | | |
| With filament bulb, 24 V | | | | | |
| |  | Q18LH-WS/WB 088535 | Q25LH-WS/WB 090405 | | 10 off |
| |  | Q18LH-GN/WB 088483 | Q25LH-GN/WB 090312 | | |
| |  | Q18LH-RT/WB 088507 | Q25LH-RT/WB 090354 | | |
| |  | Q18LH-GE/WB 088448 | Q25LH-GE/WB 090285 | | |
| |  | Q18LH-BL/WB 088424 | Q25LH-BL/WB 090240 | | |

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








| | Form | Colour, mushroom, label | Type Article no. | Price See Price List | Std. pack | Notes |
|--|----------------------|---|---------------------------|----------------------|-----------|---|
| <p>Emergency-Stop actuators, IP65</p> <p>Tamper-proof according to ISO 13850, EN 418 Button remains in pushed position; release by pulling</p> | | | | | | |
|   | | | | | | |
| Non-illuminated | — |  | Q25PV 072370 | | 5 off |  <p>Accessories Page Assembly aids and accessories → 2/64</p> |
|  <p>illuminated With built-in multiple LED, 24 V DC, $I_e = 15$ mA Positive pole at X1 No bulb replacement required.</p> | — |  | Q25LPV 072371 | | 2 off | |
| NOT-STOPP | |  | Q25PV-S 257063 | | 5 off | |
| | |  | Q25LPV-S 257064 | | 5 off | |
| <p>Emergency-Stop labels, IP65</p> | | | | | | |
| <p>Yellow, black lettering NOT-AUS EMERGENCY-STOP ARRET D'URGENCE EMERGENZA</p> | Square 50 × 50 mm |  | SQT1 058874 | | 5 off | |
|   | Round, 60 mm |  | SRT1 058873 | | 5 off | |
| Blank Not suitable for engraving | Square 50 × 50 mm |  | SQ-GE 063263 | | 5 off | |
| | Round, 60 mm |  | SR-GE 063264 | | 5 off | |

| | Contacts M = Make, B = Break ⊕ = Positive opening safety function to IEC/EN 60947-5-1 | Circuit symbol ¹⁾ | Circuit symbol | Colour | Type Article no. | Price See Price List | Std. pack |
|---|---|---|---|---|----------------------|----------------------|-----------|
| <p>Contact elements</p> <p>Admissible operating voltage: 5 – 250 V</p> | | | | | | | |
|  | 1 M |  |  |  | E10 090351 | | 50 off |
| | 1 B ⊕ |  |  |  | E01 090401 | | 50 off |

Notes ¹⁾ The graphic symbol has the following meaning:

$\begin{matrix} |_{xy} \\ |_{xy} \end{matrix}$ x = Sequence number on front element
 $\begin{matrix} |_{xy} \\ |_{xy} \end{matrix}$ y = Function number on contact element









































| Inscription | Colour, symbol | Button plates For pushbutton actuators | | | Colour, symbol | Transparent insert plates For illuminated pushbutton actuators and indicator lights, flush | | | Std. pack ¹⁾ |
|-----------------------|---|---|-----------------------------------|-------------------------|---|---|-----------------------------------|-------------------------|-------------------------|
| | | 18 × 18 mm Type Article no. | 25 × 25 mm Type Article no. | Price See Price List | | 18 × 18 mm Type Article no. | 25 × 25 mm Type Article no. | Price See Price List | |
| Marking plates | | | | | | | | | |
| - |  | 01TQ18 086816 | 01TQ25 091121 | |  | 01LQ18 090231 | 01LQ25 093180 | | 20 off |
| - |  | 02TQ18 086859 | 02TQ25 091149 | | | | | | |
| - |  | 03TQ18 087766 | 03TQ25 091184 | | | | | | |
| - |  | 04TQ18 087834 | 04TQ25 091442 | | | | | | |
| - |  | 05TQ18 087867 | 05TQ25 091471 | | | | | | |
| - |  | 06TQ18 087920 | 06TQ25 091506 | | | | | | |
| OFF |  | 10TQ18 087951 | 10TQ25 091536 | |  | 10LQ18 090243 | 10LQ25 093225 | | |
| STOP or OFF |  | 19TQ18 054510 | 19TQ25 054508 | | | | | | |
| ON |  | 11TQ18 088007 | 11TQ25 091562 | |  | 11LQ18 090288 | 11LQ25 093242 | | |
| START or ON |  | 20TQ18 054509 | 20TQ25 054507 | | | | | | |
| START or ON |  | 21TQ18 088061 | 21TQ25 091586 | | | | | | |
| Direction of movement |  | 32TQ18 088125 | 32TQ25 091618 | |  | 32LQ18 090320 | 32LQ25 093264 | | |
| Direction of movement |  | 36TQ18 088275 | 36TQ25 092592 | |  | 36LQ18 090410 | 36LQ25 093330 | | |
| Voltage |  | 34TQ18 095386 | 34TQ25 092563 | |  | 34LQ18 090368 | 34LQ25 093307 | | |
| Increase |  | 37TQ18 088315 | 37TQ25 092608 | |  | 37LQ18 090434 | 37LQ25 093365 | | |
| Decrease |  | 38TQ18 088340 | 38TQ25 092645 | |  | 38LQ18 090488 | 38LQ25 093402 | | |
| Hand |  | 40TQ18 088389 | 40TQ25 092709 | |  | 40LQ18 086178 | 40LQ25 093462 | | |
| Automatic |  | 41TQ18 088412 | 41TQ25 092774 | |  | 41LQ18 086210 | 41LQ25 093528 | | |
| ON-OFF, spring-return |  | 43TQ18 088426 | 43TQ25 092791 | |  | 43LQ18 086246 | 43LQ25 090501 | | |
| Unlock |  | 52TQ18 088452 | 52TQ25 092825 | |  | 52LQ18 086366 | 52LQ25 090640 | | |
| Lock |  | 53TQ18 088487 | 53TQ25 092874 | |  | 53LQ18 086453 | 53LQ25 090676 | | |

Notes

¹⁾ Minimum order quantity: 5 off

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| Inscription | Colour, symbol | Button plates For pushbutton actuators | | | Colour, symbol | Transparent insert plates For illuminated pushbutton actuators and indicator lights, flush | | | Std. pack ¹⁾ |
|-----------------------|---|---|--------------------------------|-------------------------|---|---|--------------------------------|-------------------------|-------------------------|
| | | 18 × 18 mm Type Article no. | 25 × 25 mm Type Article no. | Price See Price List | | 18 × 18 mm Type Article no. | 25 × 25 mm Type Article no. | Price See Price List | |
| Marking plates | | | | | | | | | |
| Unclamp |  | 54TQ18 088512 | 54TQ25 093013 | |  | 54LQ18 086755 | 54LQ25 090706 | | 20 off |
| Clamp |  | 55TQ18 088545 | 55TQ25 093032 | |  | 55LQ18 086817 | 55LQ25 090737 | | |
| Liquid START |  | | 921TQ25 047426 | | | | | | |
| Liquid STOP |  | 63TQ18 088566 | 63TQ25 093060 | |  | 63LQ18 086861 | 63LQ25 090776 | | |
| Klaxon |  | 66TQ18 088590 | 66TQ25 093092 | |  | 66LQ18 087800 | 66LQ25 090799 | | |
| Spindle START |  | | 811TQ25 053898 | | | | | | |
| Spindle STOP |  | | 814TQ25 047425 | | | | | | |
| ON-OFF, stay-put |  | 899TQ18 089232 | 899TQ25 093063 | |  | 899LQ18 091008 | 899LQ25 093184 | | |
| Direction of movement |  | 911TQ18 089778 | 911TQ25 093100 | |  | 911LQ18 091045 | 911LQ25 093202 | | |
| Direction of movement |  | 912TQ18 090181 | 912TQ25 093135 | |  | 912LQ18 091088 | 912LQ25 093228 | | |
| Fault | | | | |  | 920LQ18 062106 | 920LQ25 062107 | | |
| - |  | 80TQ18 088631 | 80TQ25 093134 | |  | 80LQ18 087840 | 80LQ25 090825 | | |
| - |  | 81TQ18 088663 | 81TQ25 093158 | |  | 81LQ18 087868 | 81LQ25 090854 | | |
| - |  | 82TQ18 088715 | 82TQ25 093178 | |  | 82LQ18 088343 | 82LQ25 090869 | | |
| - |  | 83TQ18 088744 | 83TQ25 093197 | |  | 83LQ18 088517 | 83LQ25 090884 | | |
| - |  | 84TQ18 088766 | 84TQ25 093224 | |  | 84LQ18 088547 | 84LQ25 090916 | | |
| - |  | 85TQ18 088811 | 85TQ25 093241 | |  | 85LQ18 088567 | 85LQ25 090937 | | |
| - |  | 86TQ18 089069 | 86TQ25 093257 | |  | 86LQ18 088593 | 86LQ25 090952 | | |
| - |  | 87TQ18 089107 | 87TQ25 093288 | |  | 87LQ18 088664 | 87LQ25 090990 | | |
| - |  | 88TQ18 089165 | 88TQ25 093305 | |  | 88LQ18 088721 | 88LQ25 091021 | | |
| - |  | 89TQ18 089205 | 89TQ25 093329 | |  | 89LQ18 088746 | 89LQ25 091048 | | |

Notes

¹⁾ Minimum order quantity: 5 off





























| Inscription | Colour, symbol | Button plates For pushbutton actuators | | | Colour, symbol | Transparent insert plates For illuminated pushbutton actuators and indicator lights, flush | | | Std. pack ¹⁾ |
|-----------------------|----------------|---|-----------------------------------|-------------------------|----------------|---|-----------------------------------|-------------------------|-------------------------|
| | | 18 × 18 mm Type Article no. | 25 × 25 mm Type Article no. | Price See Price List | | 18 × 18 mm Type Article no. | 25 × 25 mm Type Article no. | Price See Price List | |
| Marking plates | | | | | | | | | |
| STOP | | | 110TQ25 093363 | | | 110LQ18 088773 | 110LQ25 091091 | | 20 off |
| STOP | | | 112TQ25 063748 | | | | | | |
| ARRET | | | 310TQ25 091446 | | | | | | |
| START | | | 111TQ25 093399 | | | 111LQ18 088813 | 111LQ25 091126 | | |
| START | | | 122TQ25 063746 | | | | | | |
| MARCHE | | | 311TQ25 091475 | | | | 311LQ25 093017 | | |
| AUS | | | 117TQ25 093434 | | | 117LQ18 089073 | 117LQ25 091154 | | |
| AUS | | | 113TQ25 063749 | | | | | | |
| OFF | | | 217TQ25 090911 | | | 217LQ18 090498 | 217LQ25 092569 | | |
| ARRET | | | 317TQ25 091508 | | | 310LQ18 090851 | 310LQ25 092876 | | |
| EIN | | | 121TQ25 093461 | | | 121LQ18 089173 | 121LQ25 091188 | | |
| EIN | | | 123TQ25 063747 | | | | | | |
| ON | | | 221TQ25 090934 | | | 221LQ18 090524 | 221LQ25 092597 | | |
| MARCHE | | | 321TQ25 091563 | | | 311LQ18 090865 | | | |
| LINKS | | | 134TQ25 093494 | | | 134LQ18 089234 | 134LQ25 091449 | | |
| LEFT | | | 234TQ25 090987 | | | 234LQ18 090665 | 234LQ25 092611 | | |
| GAUCHE | | | 334TQ25 092567 | | | 334LQ18 090882 | 334LQ25 093038 | | |
| RECHTS | | | 135TQ25 093527 | | | 135LQ18 089877 | 135LQ25 091477 | | |
| RIGHT | | | 235TQ25 091009 | | | 235LQ18 090699 | 235LQ25 092661 | | |
| DROITE | | | 335TQ25 092594 | | | 335LQ18 090910 | 335LQ25 093072 | | |

Notes

¹⁾ Minimum order quantity: 5 off

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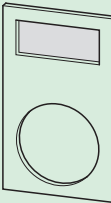



























| Inscription | Colour, symbol | Button plates For pushbutton actuators | | | Colour, symbol | Transparent insert plates For illuminated pushbutton actuators and indicator lights, flush | | | Std. pack ¹⁾ |
|-----------------------|---|---|-----------------------------------|-------------------------|---|---|-----------------------------------|-------------------------|-------------------------|
| | | 18 × 18 mm Type Article no. | 25 × 25 mm Type Article no. | Price See Price List | | 18 × 18 mm Type Article no. | 25 × 25 mm Type Article no. | Price See Price List | |
| Marking plates | | | | | | | | | |
| ZU |  | | 153TQ25 090632 | |  | 153LQ18 090185 | 153LQ25 091510 | | 20 off |
| CLOSE |  | | 253TQ25 091089 | |  | 253LQ18 090731 | 253LQ25 092724 | | |
| FERME |  | | 353TQ25 092609 | |  | 353LQ18 090933 | 353LQ25 093104 | | |
| AUF |  | | 172TQ25 090732 | |  | 172LQ18 090206 | 172LQ25 091538 | | |
| UP |  | | 272TQ25 091124 | |  | 272LQ18 090768 | 272LQ25 092778 | | |
| MONTEE |  | | 372TQ25 092711 | |  | 372LQ18 090949 | 372LQ25 093139 | | |
| AB |  | | 173TQ25 090822 | |  | 173LQ18 090247 | 173LQ25 091565 | | |
| DOWN |  | | 273TQ25 091152 | |  | 273LQ18 090796 | 273LQ25 092794 | | |
| DESCENTE |  | | 373TQ25 092775 | |  | 373LQ18 090983 | 373LQ25 093163 | | |
| RESET |  | | 287TQ25 091185 | |  | 287LQ18 090820 | 287LQ25 092844 | | |
| VOR |  | | 190TQ25 090852 | |  | 190LQ18 090291 | 190LQ25 091599 | | |
| ZURÜCK |  | | 191TQ25 090866 | |  | 191LQ18 090496 | 191LQ25 091620 | | |

Notes

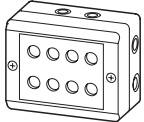
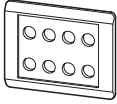
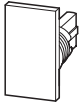
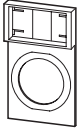
¹⁾ Minimum order quantity: 5 off

Insert Plates, Label Mounts

Moeller HPL0211-2004/2005

| Inscription | Colour, symbol | Insert plate for Q25T...-X label mount Type Article no. | Price See Price List | Q25T... label mount with insert plate  Type Article no. | Price See Price List | Std. pack |
|--|---|---|-------------------------|---|-------------------------|--|
| Insert plates, label mounts | | | | | | |
| 10 × 22 mm, insert plates black, aluminium-coloured or yellow, inscription black | | | | | | |
| - |  | 015Q25 037986 | | Q25TS-01 046184 | | 20 off Blank, black, can be engraved |
| - |  | 025Q25 038074 | | Q25TS-02 046185 | | Blank, aluminium-coloured, can be engraved |
| - |  | 055Q25 063201 | | Q25TGE-05 063259 | | Blank, yellow, not for engraving |
| AUS |  | 117SQ25 038509 | | Q25TS-117 046194 | | - |
| OFF |  | 217SQ25 038728 | | Q25TS-217 046195 | | - |
| EIN |  | 121SQ25 038579 | | Q25TS-121 046196 | | - |
| ON |  | 221SQ25 038765 | | Q25TS-221 046197 | | - |
| STOP |  | 110SQ25 038507 | | Q25TS-110 046190 | | - |
| ARRET |  | 310SQ25 038768 | | Q25TS-310 046191 | | - |
| START |  | 111SQ25 038508 | | Q25TS-111 046192 | | - |
| MARCHE |  | 311SQ25 038769 | | Q25TS-311 046193 | | - |
| Störung |  | 150SQ25 038661 | | Q25TS-150 046198 | | - |
| FAULT |  | 250SQ25 038766 | | Q25TS-250 046199 | | - |
| DÉFAUT |  | 386SQ25 072302 | | Q25TS-386 072306 | | - |
| Betrieb |  | 183SQ25 038727 | | Q25TS-183 046201 | | - |
| RUN |  | 283SQ25 038767 | | Q25TS-283 046203 | | - |
| EN SERVICE |  | 383SQ25 038771 | | Q25TS-383 046204 | | - |
| HAND 0 AUTO |  | 197SQ25 072301 | | Q25TS-197 072305 | | - |
| MAN. 0 AUTO |  | 397SQ25 072303 | | Q25TS-397 072307 | | - |
| NOT-AUS |  | 199SQ25 063200 | | Q25TGE-199 063260 | | - |
| Emergency-Stop |  | 299SQ25 063199 | | Q25TGE-299 063261 | | - |
| ARRET D'URGENCE |  | 399SQ25 048638 | | Q25TGE-399 063262 | | - |
| - |  | 105Q25 038268 | | Q25TS-10 046186 | | - |
| - |  | 115Q25 038269 | | Q25TS-11 046187 | | - |
| - |  | 325Q25 038270 | | Q25TS-32 046188 | | - |
| - |  | 905Q25 038271 | | Q25TS-90 046189 | | - |
| - |  | 935Q25 072300 | | Q25TS-93 072304 | | - |

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| | Colour | Type Article no. | Price See Price List | Std. pack |
|--|------------|------------------------------------|----------------------------|-----------|
| Surface mounting enclosures, IP65¹⁾ | | | | |
| For conventional wiring or for mounting ILP1 printed circuit boards With plastic cover fixing screws Enclosure base: black (RAL 9005) 8 mounting locations Knockout cable entries Bottom: 4 × M20 Sides: 7 × M20 | | | | |
|  | ● RAL 7035 | I8 046299 | | 2 off |
| Flush mounting panel, IP65¹⁾ | | | | |
| For conventional wiring or for mounting ELP 1 printed circuit boards 8 mounting locations | | | | |
|  | ● RAL 7035 | E8 054423 | | 1 off |
| | ● RAL 9005 | E8-SW 065212 | | 1 off |
| Customised complete devices²⁾ | | | | |
| To order use FO315. (*) = Freely selectable customer identification or stock no.; max. 10 characters. | | | | |
| | — — | M16-COMBINATION-* 232189 | | 1 off |
| Blanking plates, IP65 | | | | |
| For closing off of spare mounting locations in surface mounting enclosures or flush mounting panels in grid dimension 25 × 37.5 mm | | | | |
|  | ● RAL 9005 | Q25AS 036602 | | 10 off |
| | ● RAL 7035 | Q25AGR 048641 | | |
| | ● — | Q25AGE 048640 | | |
| Label mounts for insert plates³⁾ | | | | |
| For additional marking of mounting locations in surface mounting enclosures or flush mounting panels in grid dimension 25 × 37.5 mm | | | | |
|  | ● RAL 9005 | Q25TS-X 036601 | | 20 off |
| | ● RAL 7035 | Q25TGR-X 063257 | | |
| | ● — | Q25TGE-X 063258 | | |















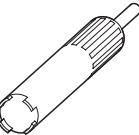






Notes

- ¹⁾ Unused locations must be closed off with blanking plates.
- ²⁾ For further information → Engineering
- ³⁾ Suitable insert plates → 2/62



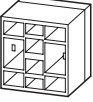










Filament Bulbs, LEDs, Assembly Aids

Moeller HPL0211-2004/2005

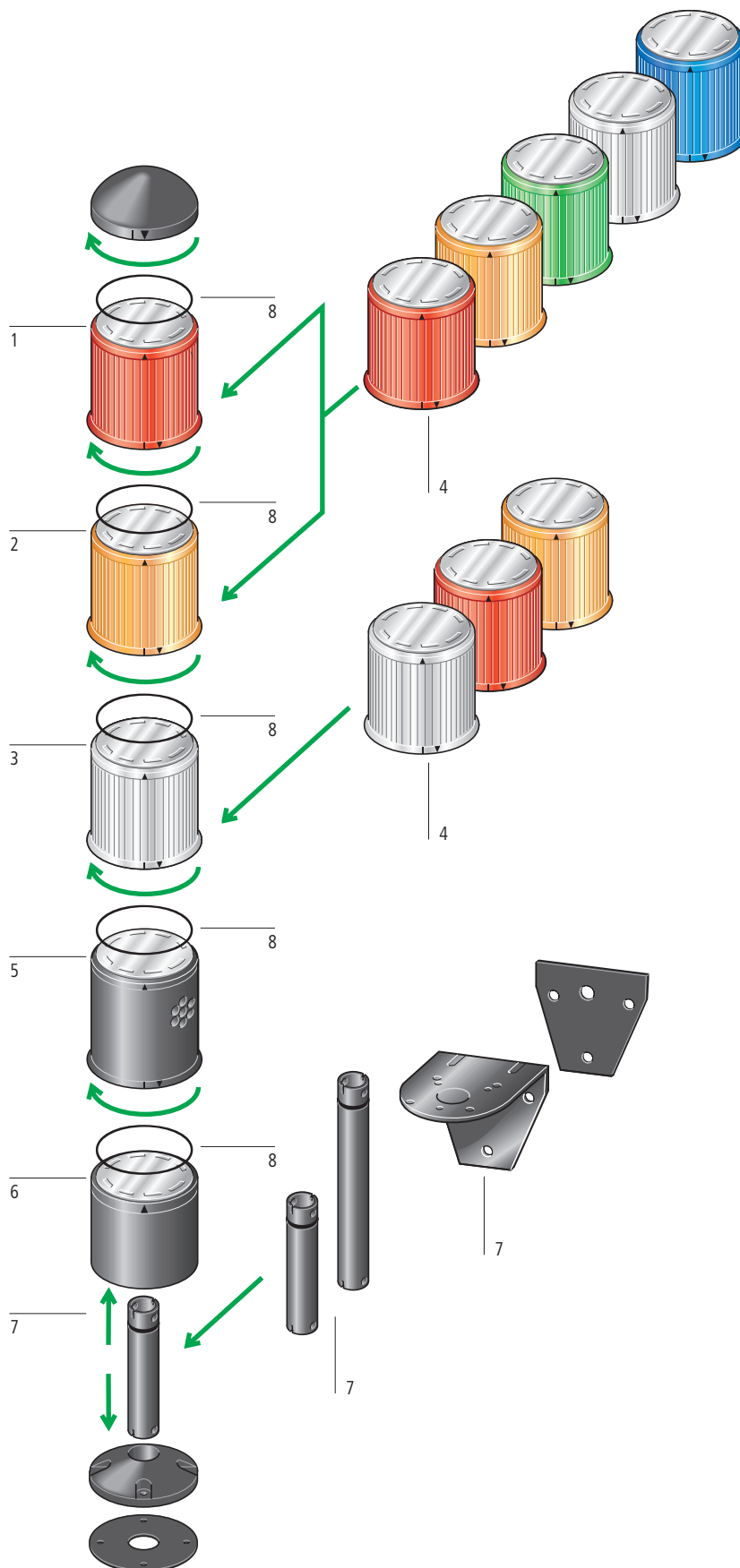
| Style | Lifespan to EN 60064 at $T_a = +25\text{ °C}$ $t_{\text{mean}} \text{ (AC)}$ h | Colour | Type Article no. | Price See Price List | Std. pack |
|--|---|---|---|----------------------------|-----------|
| Filament bulbs: W 2 x 4.6 d | | | | | |
|  6 V/1.0 W | 10000 | – | WBGL6 090223 | | 50 off |
| 12 V/1.0 W | 15000 | – | WBGL12 089968 | | 50 off |
| 24 – 28 V/1.0 W | 7000 | – | WBGL24 089247 | | 100 off |
| Multiple LEDs: W 2 x 4.6 d | | | | | |
| For AC/DC  6 V/45 mA | 60000 |  | WBLED-GE6 055711 | | 10 off |
| | |  | WBLED-GN6 055712 | | |
| | |  | WBLED-RT6 055713 | | |
| 12 V/24 mA | |  | WBLED-GE12 055714 | | |
| | |  | WBLED-GN12 055715 | | |
| | |  | WBLED-RT12 055716 | | |
| Single-chip LED: W 2 x 4,6 d | | | | | |
| Positive pole connected to X1, Integral suppressor circuit up to 1000 V | | | | | |
|  18 – 30 V DC/7 – 12.5 mA | 100000 |  | LEDWB-Y 208724 | | 10 off |
| | |  | LEDWB-G 208725 | | |
| | |  | LEDWB-R 208726 | | |
| | |  | LEDWB-W 208728 | | |
| | |  | LEDWB-B 208727 | | |
| Combination box spanner | | | | | |
| For lock nut with bulb extractor | | | | | |
|  – | – | – | R16-MS 090297 | | 10 off |
| Insulated ferrule | | | | | |
| For fast-on connector 2.8 × 0.8 mm, push-on from the front $U_e > 50\text{ V AC}$, $U_e > 120\text{ V DC}$ | | | | | |
|  – | – | – | ISH2,8 090267 | | 100 off |
| Fast-on connector | | | | | |
| 2.8 × 0.8 mm for conductor cross-section 0.5 – 1 mm ² | | | | | |
|  – | – | – | LT306.022.3 058863 | | 100 off |
| Blanking plugs, IP65 | | | | | |
| Degree of protection IP65 For closing off of spare mounting locations | | | | | |
|  | For grid dimension 18 × 18 mm | – |  | Q18BS 037985 | 10 off |
| | For grid dimension 25 × 25 mm | – |  | Q25BS 036976 | 10 off |
| Anti-rotation feature | | | | | |
| Guard ring as anti-rotation feature for all RMQ16 actuators | | | | | |
|  – | – | – | VS 046301 | | 50 off |



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| | For use with | Colour | Type Article no. | Price See Price List | Std. pack |
|---|---------------|---|--------------------------|----------------------------|-----------|
| PCB adapter | | | | | |
| For adaptation to printed circuit boards. Lamp sockets and contact elements can be fitted directly | | | | | |
|  | - | - | PRA16 046302 | | 20 off |
| Screw adapters, IP20 | | | | | |
| Conductor cross-sections 1 × 1.5 mm ² , 2 × 0.75 mm ² | | | | | |
|  | Break contact |  | SRA01 028101 | | 20 off |
| | Make contact |  | SRA10 028100 | | |
| | Lamp socket |  | SRAL 028099 | | |
| Individual keys | | | | | |
| Standard lock mechanism, black, each colour corresponds to a specific lock mechanism | | | | | |
|  | - |  | ES16 065190 | | 10 off |
| | - |  | ES16-GN 030742 | | 5 off |
| | - |  | ES16-RT 030741 | | |
| | - |  | ES16-WS 030743 | | |
| | - |  | ES16-BL 030744 | | |



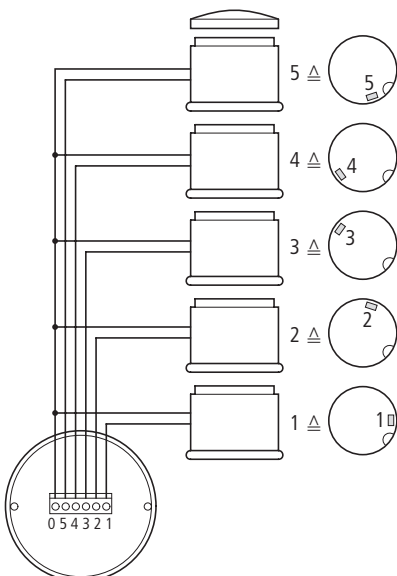


Moeller HPL0211-2004/2005

| | | | | | |
|---|---|--|---|---|---|
| Continuous light | 1 | Caps | 4 | Accessories | 7 |
| Easy to assemble with bayonet fitting | | Colour: red, yellow, green, white, blue | | Spacer available in four lengths | |
| Modules can be arranged in any order | | Fresnel grooves ensure even light distribution | | Filament bulbs, LEDs | |
| Degree of protection IP54 | | | | 90° wall mounting bracket with market-standard four-hole fixing | |
| Up to five levels can be actuated independently | | | | | |
| Operating mode: 100 % DF | | | | | |
| Without bulbs | | | | | |
| → 2/69 | | | | → 2/71 | |
| Flashing light | 2 | Acoustic indicator | 5 | Gaskets | 8 |
| Easy to assemble with bayonet fitting | | Easy to assemble with bayonet fitting | | For increasing the degree of protection to IP65 | |
| Modules can be arranged in any order | | Modules can be arranged in any order | | | |
| Degree of protection IP54 | | Degree of protection IP20 | | | |
| Up to five levels can be actuated independently | | Operating mode: 100 % DF | | | |
| Operating mode: 100 % DF | | Pulsed or continuous tone | | | |
| Without filament bulb | | Sound pressure: about 90 dB at 60 cm | | | |
| Flashing frequency: approx. 1 Hz | | Frequency: 2750 Hz | | | |
| → 2/69 | | → 2/70 | | → 2/71 | |
| Strobe light | 3 | Base module | 6 | | |
| Easy to assemble with bayonet fitting | | Easy to assemble with bayonet fitting | | | |
| Modules can be arranged in any order | | Degree of protection IP54 | | | |
| Degree of protection IP54 | | For floor mounting or in tubular column | | | |
| Up to five levels can be actuated independently | | Terminal capacity: 6 × 1.5 mm ² | | | |
| Operating mode: 100 % DF | | With top cover | | | |
| Flash power 1 Ws | | | | | |
| With flash tube | | | | | |
| Flashing frequency: approx. 1 Hz | | | | | |
| → 2/70 | | → 2/69 | | | |

Product feature of SL

- Individual programming by jumper: max. 5 modules and base module

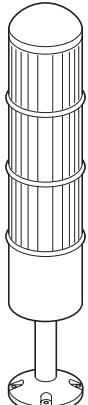

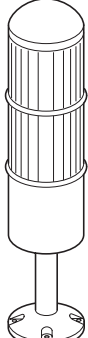



2/68 Complete Units
SL Signal Towers

























Moeller HPL0211-2004/2005

Control Circuit Devices
SL Signal Towers



| | Rated operational voltage U_e V | Modules Qty. | Colour | Type Article no. | Price See Price List | Std. pack |
|--|---|---------------------|---|----------------------------|-------------------------|-----------|
| Complete units, IP54 | | | | | | |
| Base module with stand and 100 mm tube including filament bulbs Continuous light | | | | | | |
|  | 24 V AC/DC | 3 |  | SL-100-L-RYG/24 205352 | | 1 off |
|  | 24 V AC/DC | 2 |  | SL-100-L-RG/24 205354 | | 1 off |
| Customised complete units | | | | | | |
| To order use F0315. (*) = Freely selectable customer identification or stock no.; Maximum 10 characters | | | | | | |
| - | - | - | - | SL-COMBINATION-* 229655 | | 1 off |

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| | | Rated operational voltage U_e V | Colour | Type Article no. | Price See Price List | Std. pack |
|--|---------------------------------|---|---|-------------------|----------------------|-----------|
| Base modules | | | | | | |
| Black, with cover | | | | | | |
|  | With screw terminals | - | - | SL-B 205311 | | 1 off |
|  | With Cage Clamp | - | - | SL-CB 218483 | | |
| | With connection to AS-Interface | - | - | SL-B-ASI 222174 | | |
| <p>Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/Minden, Germany</p> <p>Base module (printed circuit board in base enclosure with 3 outputs):</p> <ul style="list-style-type: none"> • Total power supply from AS-Interface (max. 250 mA) using 2-way screw terminal • Combination of 3 stacking modules with differing functions (continuous-, flashing-, strobe light and acoustic indication) • Status indication via LEDs • Order stacking modules separately | | | | | | |
| Continuous light modules | | | | | | |
| Without bulbs | | | | | | |
|  | - | - |  | SL-L-W 205312 | | 1 off |
| | - | - |  | SL-L-R 205313 | | - |
| | - | - |  | SL-L-G 205314 | | - |
| | - | - |  | SL-L-Y 205315 | | - |
| | - | - |  | SL-L-B 205316 | | - |
| Flashing light modules | | | | | | |
| Without bulbs, $f \approx 1$ Hz | | | | | | |
|  | - | 24 V AC/DC (+10 %/-15 %) |  | SL-BL24-W 205317 | | 1 off |
| | - | |  | SL-BL24-R 205318 | | - |
| | - | |  | SL-BL24-G 205319 | | - |
| | - | |  | SL-BL24-Y 205320 | | - |
| | - | |  | SL-BL24-B 205321 | | - |
| | - | 110 – 130 V AC |  | SL-BL130-W 205322 | | - |
| | - | |  | SL-BL130-R 205323 | | - |
| | - | |  | SL-BL130-G 205324 | | - |
| | - | |  | SL-BL130-Y 205325 | | - |
| | - | |  | SL-BL130-B 205326 | | - |
| | - | 230 V AC |  | SL-BL230-W 205327 | | - |
| | - | |  | SL-BL230-R 205328 | | - |
| | - | |  | SL-BL230-G 205329 | | - |
| | - | |  | SL-BL230-Y 205330 | | - |
| | - | |  | SL-BL230-B 205331 | | - |

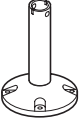















Control Circuit Devices
SL Signal Towers





| | | Rated operational voltage U_e V | Colour | Type Article no. | Price See Price List | Std. pack |
|---|--|--|--------|------------------------|----------------------------|-----------|
| Acoustic indicator modules | | | | | | |
| | Continuous tone $f = 2750$ Hz At 60 cm distance 12 V: 77 dB 24 V: 83 dB 36 V: 90 dB | 12 – 36 V AC/DC 8 – 12 mA | | SL-A24 205341 | | 1 off |
| | Continuous tone $f = 2750$ Hz At 60 cm distance 110 V: 72 dB 230 V: 78 dB | 110 – 230 V AC/DC 4 – 8 mA | | SL-A110-230 205342 | | |
| | Pulsed tone 5 Hz with $f = 2750$ Hz At 60 cm distance 12 V: 61 dB 24 V: 66 dB 36 V: 77 dB | 12 – 36 V AC/DC 8 – 12 mA | | SL-AP24 205343 | | |
| | Pulsed tone 5 Hz with $f = 2750$ Hz At 60 cm distance 110 V: 67 dB 230 V: 73 dB | 110 – 230 V AC/DC 4 – 8 mA | | SL-AP110-230 205344 | | |
| Strobe light module | | | | | | |
| With flash tube, 1 Ws, $f \approx 1$ Hz | | | | | | |
| | – | 24 V AC/DC (+10 %/-15 %) I_{emax} : 190 mA | | SL-FL24-W 205332 | | 1 off |
| | – | | | SL-FL24-R 205333 | | |
| | – | | | SL-FL24-Y 205334 | | |
| | – | 110 – 130 V AC I_{emax} : 31 mA | | SL-FL130-W 205335 | | |
| | – | | | SL-FL130-R 205336 | | |
| | – | | | SL-FL130-Y 205337 | | |
| | – | 230 V AC I_{emax} : 28 mA | | SL-FL230-W 205338 | | |
| | – | | | SL-FL230-R 205339 | | |
| | – | | | SL-FL230-Y 205340 | | |

Moeller HPL0211-2004/2005

| | | Lifespan to EN 60064 at $T_a = +25\text{ }^\circ\text{C}$ | Rated operational voltage | Colour | Type Article no. | Price See Price List | Std. pack |
|---|------------------------|--|---------------------------------|---|-----------------------|----------------------------|-----------|
| | | t_{mean} (AC) h | U_e V | | | | |
| Accessories | | | | | | | |
| Stand with spacer | | | | | | | |
|  | 100 mm, plastic, black | - | - | - | SL-F100 205345 | | 1 off |
| | 100 mm, metal | - | - | - | SL-F100M 265359 | | |
| | 250 mm, plastic, black | - | - | - | SL-F250 205346 | | |
| | 250 mm, metal | - | - | - | SL-F250M 268925 | | |
| | 400 mm, metal | - | - | - | SL-F400 215275 | | |
| | 800 mm, metal | - | - | - | SL-F800 215276 | | |
| Fixing bracket 90°, for wall mounting | | | | | | | |
|  | Metal | - | - | - | SL-FW 205347 | | 1 off |
| Filament bulb BA 15d, 5 – 7 W | | | | | | | |
|  | - | 2000 | 24 V | - | SL-L24 205348 | | 1 off |
| | - | 5000 | 110 – 130 V | - | SL-L130 205349 | | |
| | - | 5000 | 200 – 260 V | - | SL-L230 205350 | | |
| Multiple LED BA 15d, Integral suppressor circuit up to 1500 V | | | | | | | |
|  | - | 100000 | 110 – 230 V AC 9 – 17 mA |  | SL-LED-W 215278 | | 1 off |
| | - | | |  | SL-LED-R 215279 | | |
| | - | | |  | SL-LED-G 215280 | | |
| | - | | |  | SL-LED-Y 215281 | | |
| | - | | |  | SL-LED-B 215282 | | |
| Multiple LED BA 15d | | | | | | | |
|  | - | 100000 | 110 – 230 V AC/DC 9 – 17 mA |  | SL-LED230-W 285532 | | 1 off |
| | - | | |  | SL-LED230-R 285533 | | |
| | - | | |  | SL-LED230-G 285534 | | |
| | - | | |  | SL-LED230-Y 285535 | | |
| | - | | |  | SL-LED230-B 285536 | | |
| Set of gaskets For increasing the degree of protection to IP65 (not for the acoustic indicator) For 3 modules \triangle 4 off | | | | | | | |
|  | - | - | - | - | SL-IP65 215277 | | 1 off |





| | | | Contact elements | LED elements ¹⁾ | Illuminated pushbutton actuators, Pushbutton actuators, Mushroom actuators, spring-return | Double pushbutton actuators | Selector switch actuators, Illuminated selector switch actuators |
|--|--------------|-------------------|--|----------------------------|---|-----------------------------|--|
| General technical data | | | | | | | |
| Standards | | | IEC/EN 60947 VDE 0660 | | | | |
| Lifespan, mechanical | Operations | × 10 ⁶ | > 5 | – | > 5 | > 0.2 | > 0.1 |
| Operating frequency | Operations/h | | ≤ 3600 | – | ≤ 3600 | ≤ 3600 | ≤ 2000 |
| Actuating force | | n | ≤ 5 | – | ≤ 5 | ≤ 5 | – |
| Operating torque (screw terminals) | | Nm | ≤ 0.8 | – | – | – | ≤ 0.3 |
| Degree of protection, IEC/EN 60529 | | | See selection pages | | | | |
| Climatic proofing ²⁾ | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclical, to IEC 60068-2-30 | | | | |
| Ambient temperature ¹⁾ | | | | | | | |
| Open | | °C | -25/70 | -25/70 | -25/70 | -25/70 | -25/70 |
| Mounting position | | | As required | | | | |
| Mechanical shock resistance according to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal | | | g | > 30 | > 30 | > 30 | > 30 |
| Terminal capacity | | | | | | | |
| Solid | | mm ² | 0.75 – 2.5 | 0.75 – 2.5 | – | – | – |
| Stranded | | mm ² | 0.5 – 2.5 | 0.5 – 2.5 | – | – | – |
| Contacts | | | | | | | |
| Rated impulse withstand voltage | U_{imp} | V AC | 6000 | 6000 | – | – | – |
| Rated insulation voltage | U_i | V | 500 | 500 | – | – | – |
| Overvoltage category/pollution degree | | | III / 3 | III / 3 | – | – | – |
| Control circuit reliability | | | | | | | |
| At 24 V DC/5 mA | H_f | Fault probability | < 10 ⁻⁷ , < 1 fault in 10 ⁷ operations | – | – | – | – |
| At 5 V DC/1 mA | H_f | Fault probability | < 5 × 10 ⁻⁶ , < 1 fault in 5 × 10 ⁶ operations | – | – | – | – |
| Max. short-circuit protective device | | | | | | | |
| Fuseless | | Type | PKZM0-10/FAZ-B6/1 | – | – | – | – |
| Fuse | gG/gL | A | 10 | – | – | – | – |
| Switching capacity | | | | | | | |
| Rated operational current | | | | | | | |
| AC-15 | | | | | | | |
| 115 V | I_e | A | 6 | – | – | – | – |
| 230 V | I_e | A | 6 | – | – | – | – |
| 400 V | I_e | A | 4 | – | – | – | – |
| 500 V | I_e | A | 2 | – | – | – | – |
| DC-13 | | | | | | | |
| 24 V | I_e | A | 3 | – | – | – | – |
| 42 V | I_e | A | 1.7 | – | – | – | – |
| 60 V | I_e | A | 1.2 | – | – | – | – |
| 110 V | I_e | A | 0.8 | – | – | – | – |
| 220 V | I_e | A | 0.3 | – | – | – | – |
| Lifespan, electrical | | | | | | | |
| AC-15 | | | | | | | |
| 230 V/0.5 A | Operations | × 10 ⁶ | 1.6 | – | – | – | – |
| 230 V/1.0 A | Operations | × 10 ⁶ | 1 | – | – | – | – |
| 230 V/3.0 A | Operations | × 10 ⁶ | 0.7 | – | – | – | – |
| DC-13 | | | | | | | |
| 12 V/2.8 A | Operations | × 10 ⁶ | 1.2 | – | – | – | – |

Notes

¹⁾ > 200 V AC/60 Hz: -25/+55 °C

²⁾ Indoor and protected outdoor installation

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| | | | Key-operated actuators | Indicator lights Compact acoustic indicators, Compact indicator lights, Potentiometers | Illuminated pushbutton actuators, Pushbutton actuators Mushroom actuators, stay-put | Emergency-Stop actuators | 4-way push-button | Joystick | 4-way selector switch actuators |
|--|--------------|-------------------|--|---|---|--------------------------|-------------------|----------|---------------------------------|
| General technical data | | | | | | | | | |
| Standards | | | IEC/EN 60947 VDE 0660 | | | | | | |
| Lifespan, mechanical | Operations | × 10 ⁶ | > 0.1 | – | > 1 | > 0.1 | > 0.2 | > 0.1 | > 0.1 |
| Operating frequency | Operations/h | | ≤ 100 | – | ≤ 1800 | ≤ 600 | ≤ 3600 | ≤ 2000 | ≤ 2000 |
| Actuating force | | n | – | – | ≤ 5 | ≤ 50 | ≤ 5 | ≤ 5 | – |
| Operating torque | | Nm | ≤ 0.5 | – | – | – | – | – | ≤ 0.3 |
| Degree of protection, IEC/EN 60529 | | | See selection pages | | | | | | |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclical, to IEC 60068-2-30 | | | | | | |
| Ambient temperature | | | | | | | | | |
| Open | | °C | -25/70 | -25/70 | -25/70 | -25/70 | -25/70 | -25/70 | -25/70 |
| Mounting position | | | As required | | | | | | |
| Mechanical shock resistance according to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal | | | g | > 30 | > 30 | > 30 | > 50 | > 30 | > 30 |
| Terminal capacity | | | | | | | | | |
| Solid | | mm ² | – | 0.5 – 1.5 | – | – | – | – | – |
| Stranded | | mm ² | – | 0.5 – 1.5 | – | – | – | – | – |
| Contacts | | | | | | | | | |
| Rated impulse withstand voltage | U_{imp} | V AC | – | 4000 | – | – | – | – | – |
| Rated insulation voltage | U_i | V | – | 2500 | – | – | – | – | – |
| Overvoltage category/pollution degree | | | – | III/3 | – | – | – | – | – |

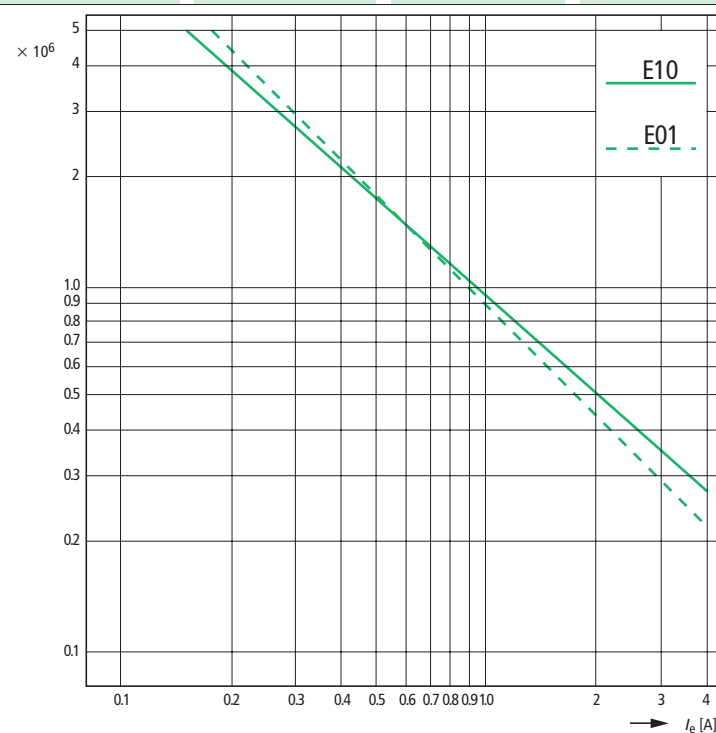
| | | | FAK... foot and palm switches | | FAK-R/V/KC11A/I |
|--|--------------|-------------------|--|-------------|-----------------|
| | | | Spring-return | Stay-put | Stay-put |
| General technical data | | | | | |
| Standards | | | IEC/EN 60947 VDE 0660 | | |
| Lifespan, mechanical | Operations | × 10 ⁶ | > 1 | > 0.1 | > 0.1 |
| Operating frequency | Operations/h | | ≤ 3600 | ≤ 600 | ≤ 600 |
| Actuating force | | n | ≤ 40 | ≤ 60 | ≤ 25 |
| Operating torque | | Nm | – | – | – |
| Degree of protection, IEC/EN 60529 | | | IP67, IP69K | IP67, IP69K | IP65 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclical, to IEC 60068-2-30 | | |
| Ambient temperature | | | | | |
| Open | | °C | -25/40 | -25/40 | -25/70 |
| Mounting position | | | As required | As required | As required |
| Mechanical shock resistance according to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal | | | g | > 15 | > 15 |



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| | | | Contact elements ¹⁾ | Illuminated pushbuttons (stay-put) | Illuminated selector switch actuators | Indicator lights |
|--|--------------|-------------------|---|------------------------------------|---------------------------------------|------------------|
| General technical data | | | | | | |
| Standards | | | IEC/EN 60947, VDE 0660 | | | |
| Lifespan, mechanical | Operations | × 10 ⁶ | > 100 | > 30 | > 3 | – |
| Operating frequency | Operations/h | | ≤ 3600 | ≤ 1800 | ≤ 1800 | – |
| Actuating force | | n | ≤ 3 | ≤ 4 | – | – |
| Operating torque | | Nm | – | – | ≤ 0.2 | – |
| Degree of protection, IEC/EN 60529 | | | IP20 with ISH2,8 | IP65 | IP65 | IP65 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30 | | | |
| Ambient temperature | | | | | | |
| Open | | °C | -25/60 | -25/60 | -25/60 | -25/60 |
| Enclosed | | °C | -25/40 | -25/40 | -25/40 | -25/40 |
| Mounting position | | | As required | | | |
| Mechanical shock resistance according to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal | | | g | > 40 | > 40 | > 40 |
| Terminal capacity | | | mm ² | 0.5 – 1.0 | 0.5 – 1.0 | 0.5 – 1.0 |
| Blade terminals | | | 2.8 × 0.8 mm to DIN 46244 | | | |
| Fast-on connector | | | 2.8 × 0.8 mm to DIN 46247 and IEC 60760 | | | |
| Contacts | | | | | | |
| Rated impulse withstand voltage | U_{imp} | V AC | 4000 | 800 | 800 | 800 |
| Rated insulation voltage | U_i | V | 250 | 250 | 250 | 250 |
| Overvoltage category/pollution degree | | | III/3 | III/3 | III/3 | III/3 |
| Rated operational voltage | U_e | V AC | 250 | 24 | 24 | 24 |
| Control circuit reliability | | | | | | |
| At 24 V DC/5 mA | H_f | Fault probability | < 10 ⁻⁷ , < 1 fault in 10 ⁷ operations | | | – |
| At 5 V DC/1 mA | H_f | Fault probability | < 5 × 10 ⁻⁶ , < 1 fault in 5 × 10 ⁶ operations | | | – |
| Use of ISH2,8 insulated sleeve | | | On>24 V AC/DC recommended On>50 V AC or 120 V DC mandatory, also on unoccupied blade terminals | | | |
| Max. short-circuit protective device | | | | | | |
| Fuseless | | Type | FAZ-B6/1 | – | – | – |
| Fuse | gG/gL | A | 10 | – | – | – |

¹⁾ Lifespan, electrical AC-15 to IEC/EN 60947-5-1 at 230 V; I_e = rated operational current



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| Pushbutton actuators (stay-put) | Selector switch actuators | Key-operated actuators | Emergency-Stop actuators | Emergency-Stop actuators, illuminated |
|--|---------------------------|------------------------|--------------------------|---------------------------------------|
| IEC/EN 60947, VDE 0660 | | | | |
| > 3 | > 3 | > 3 | > 0.05 | > 0.5 |
| ≤ 1800 | ≤ 1800 | ≤ 1800 | ≤ 600 | ≤ 600 |
| ≤ 4 | – | – | ≤ 25 | ≤ 25 |
| – | ≤ 0.2 | ≤ 0.4 | – | – |
| IP65 | IP65 | IP65 | IP65 | IP65 |
| Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30 | | | | |
| Ambient temperature | | | | |
| Open | | | | |
| Enclosed | | | | |
| Mounting position | | | | |
| Mechanical shock resistance according to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal | | | | |
| Terminal capacity | | | | |
| Blade terminals | | | | |
| Fast-on connector | | | | |
| Contacts | | | | |
| Rated impulse withstand voltage | U_{imp} | V AC | 4000 | 800 |
| Rated insulation voltage | U_i | V | 250 | 250 |
| Overvoltage category/pollution degree | | | | |
| Rated operational voltage | U_e | V AC | 250 | 24 |
| Control circuit reliability | | | | |
| At 24 V DC/5 mA | | | | |
| At 5 V DC/1 mA | | | | |
| Use of ISH2,8 insulated sleeve | | | | |
| Max. short-circuit protective device | | | | |
| Fuseless | | | | |
| Fuse | | | | |



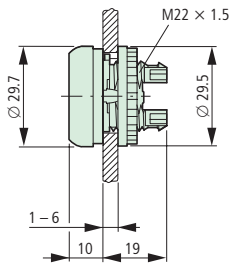


| | | | SL signal towers | |
|---|-----------|-----------------|---|-------------|
| General technical data | | | | |
| Standards | | | IEC/EN 60947, VDE 0660 | |
| Degree of protection, IEC/EN 60529 | | | IP54 ¹⁾ | |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30 | |
| Ambient temperature | | | | |
| Open | | °C | – | – |
| Enclosed | | °C | -25/50 | -25/50 |
| Mounting position | | | As required | As required |
| Mechanical shock resistance according to IEC 60068-2-27 | | g | > 15 | > 15 |
| Shock duration 11 ms, half-sinusoidal | | | | |
| Terminal capacity | | | | |
| Solid | | mm ² | 0.75 – 2.5 | 0.75 – 2.5 |
| Stranded | | mm ² | 0.5 – 2.5 | 0.5 – 2.5 |
| Contacts | | | | |
| Rated impulse withstand voltage | U_{imp} | V AC | 4000 | 4000 |
| Rated insulation voltage | U_i | V | 250 | 250 |
| Overvoltage category/pollution degree | | | III/3 | III/3 |

| | | | Base module for SL-B-ASI signal towers | |
|--|--|----|---|--|
| General technical data | | | | |
| Connection of the AS-Interface line | | | Screw terminal on the printed circuit board | |
| Addressing | | | Via AS-Interface line connection | |
| Maximum total current | | mA | ≤250 | |
| Power supply | | | From AS-Interface line only | |
| Ambient temperature | | °C | -25/55 | |
| Status LEDs on the printed circuit board | | | Status. Output Q0/function module position 1: green Status. Output Q1/function module position 2: green Status. Output Q2/function module position 3: green AS-Interface power line: green AS-Interface error, AS-Interface master failure: red | |
| Profile | | | S-9.A.E | |
| Notes | | | ¹⁾ IP65 only when using SL-IP65 IP20 with SL-A | |

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Actuating- and indicator elements



Pushbutton actuators

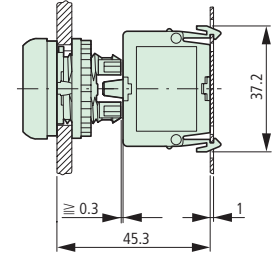
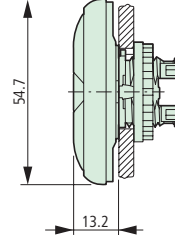
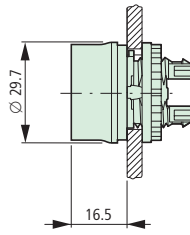
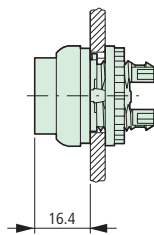
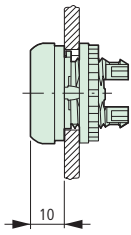
M22-D

M22-DH

M22-DG(L)

M22-DD

M22-D pushbuttons
in base fixing



Selector switch actuators

M22-W(R)...

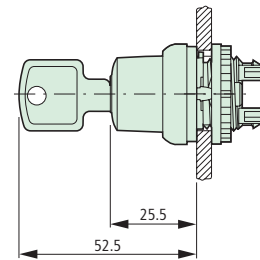
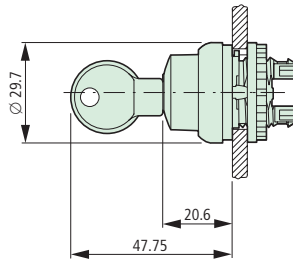
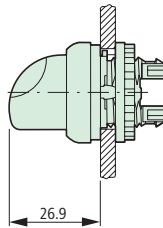
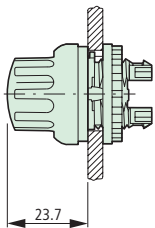
M22-W(R)K...
M22-W(R)LK...

Key-operated actuators
Individual lock mechanisms

M22(S)-W(R)S-(MS...)

Master key systems

M22(S)-W(R)S-SA...



Indicator lights

M22-LH

M22-L

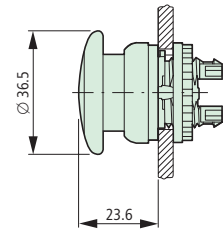
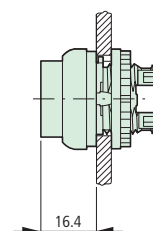
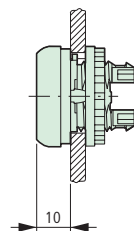
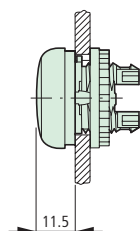
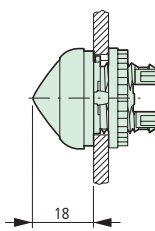
Illuminated pushbuttons

M22-DL

M22-DLH

Mushroom buttons

M22-DP



Compact indicator lights,
Compact acoustic
indicators

M22-LC-..., M22-AM

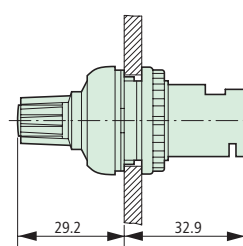
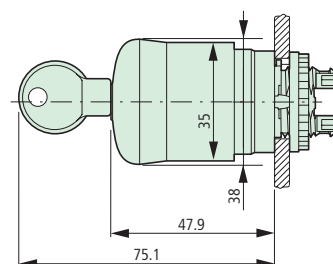
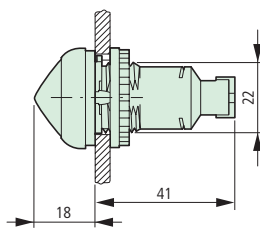
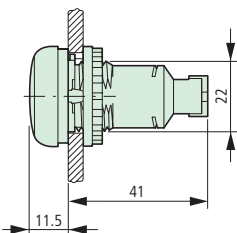
M22-LCH-...

Emergency-Stop actuators

M22-PV, M22S-PV
M22-PVL, M22-PVS-...

Potentiometer

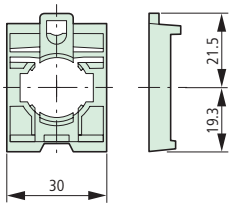
M22(S)-R...K



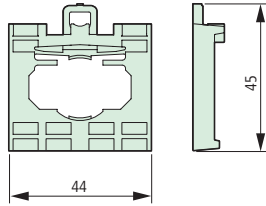
Front fixing (style: flush mounting)

Fixing adapter

M22-A

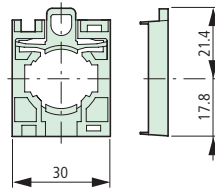


M22-A4

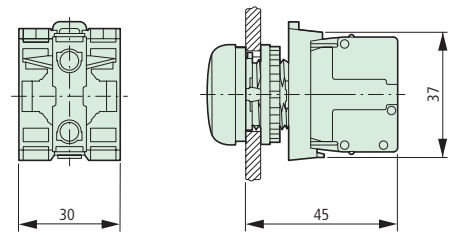


Centring adapter

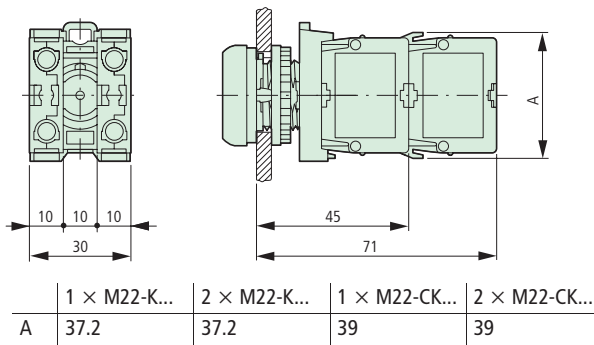
M22-ZA



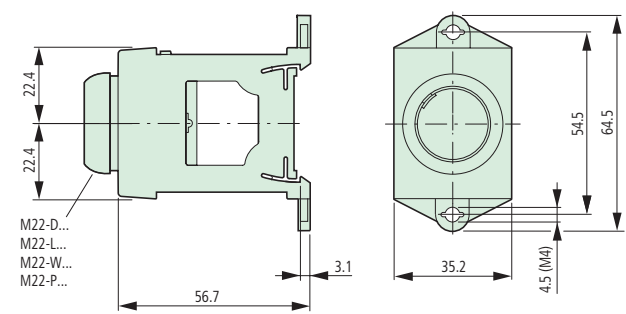
Indicator lights/illuminated pushbuttons



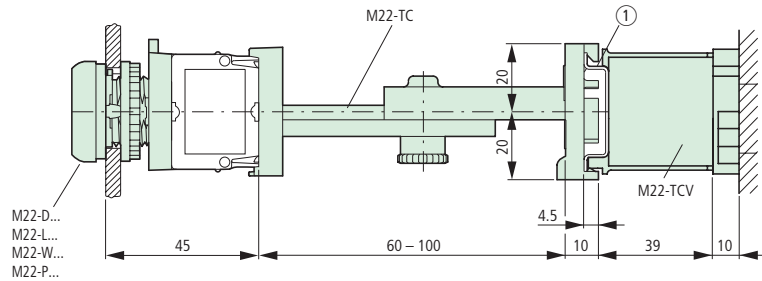
Pushbutton with M22-(C)K...
Pushbutton with M22-(C) LED... + M22-XLED...



IVS top-hat rail adapter



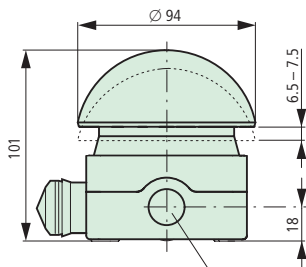
Pushbuttons, illuminated pushbuttons, indicator lights
With M22-TC telescopic clip and M22-TCV extension



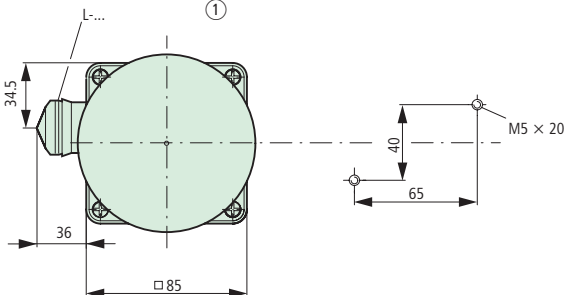
① Top-hat rail to IEC/EN 60715

Foot and palm switches

FAK...



① 3 × M20 (Pg 13,5) in the sides
1 × M16 in the base

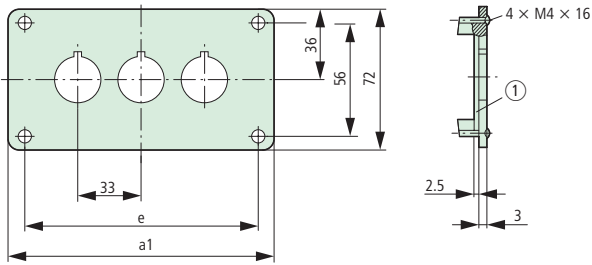


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Front fixing (style: flush mounting)

Flush mounting panel

M22-E...

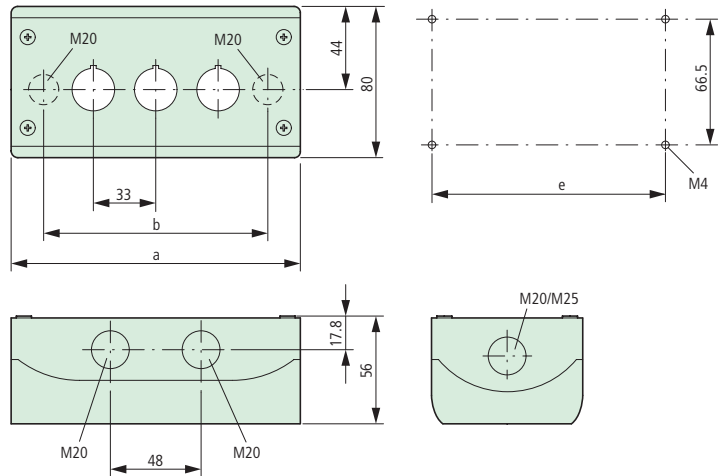


| Type | a1 | e |
|--------|-----|-----|
| E(Y) 1 | 72 | 56 |
| E2 | 105 | 89 |
| E3 | 138 | 122 |
| E4 | 171 | 155 |
| E5 | 204 | 188 |
| E6 | 237 | 221 |

Base fixing (style: surface mounting)

Surface mounting enclosure

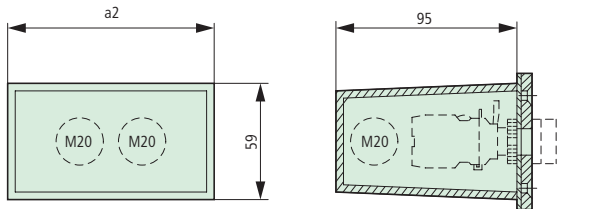
M22-I...



| Type | Mounting | a | b | e | Cable entries |
|-------------|----------|-----|-------|-------|-------------------------|
| M22-I (Y) 1 | 1 | 72 | 42.6 | 58.5 | 2 x M16 3 x M20 2 x M25 |
| M22-I2 | 2 | 120 | 85.6 | 106.5 | 2 x M20 3 x M20 2 x M25 |
| M22-I3 | 3 | 153 | 118.6 | 139.5 | 2 x M20 2 x M25 4 x M20 |
| M22-I4 | 4 | 186 | 151.6 | 172.5 | 2 x M20 2 x M25 4 x M20 |
| M22-I6 | 6 | 252 | 217.6 | 238.5 | 2 x M20 2 x M25 4 x M20 |

Shroud

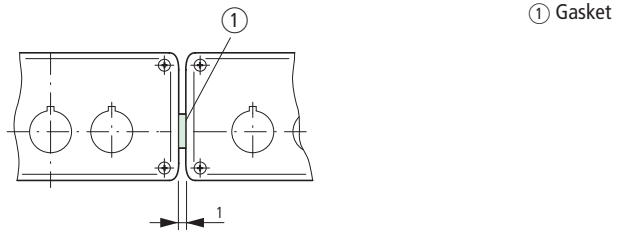
M22-H...



| Type | a2 | Cable entry | Style |
|------|-----|-------------|-----------|
| H1 | 42 | 3 x M20 | One-piece |
| H2 | 75 | 4 x M20 | |
| H3 | 108 | 4 x M20 | |
| H4 | 141 | 4 x M20 | Split |
| H5 | 174 | 5 x M20 | |
| H6 | 207 | 6 x M20 | |

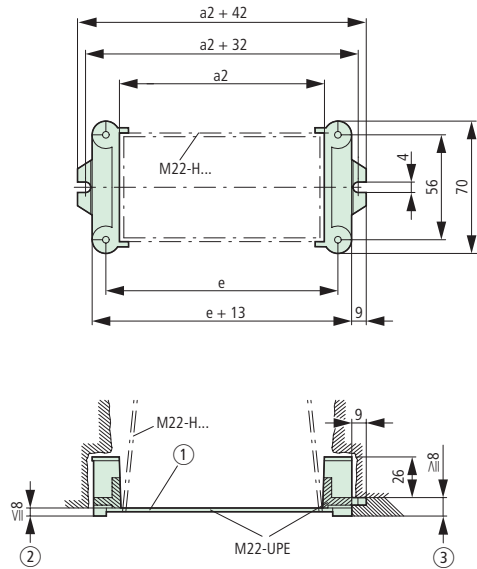
Combination of surface mounting enclosures

M22-XI



Shroud with plaster keys

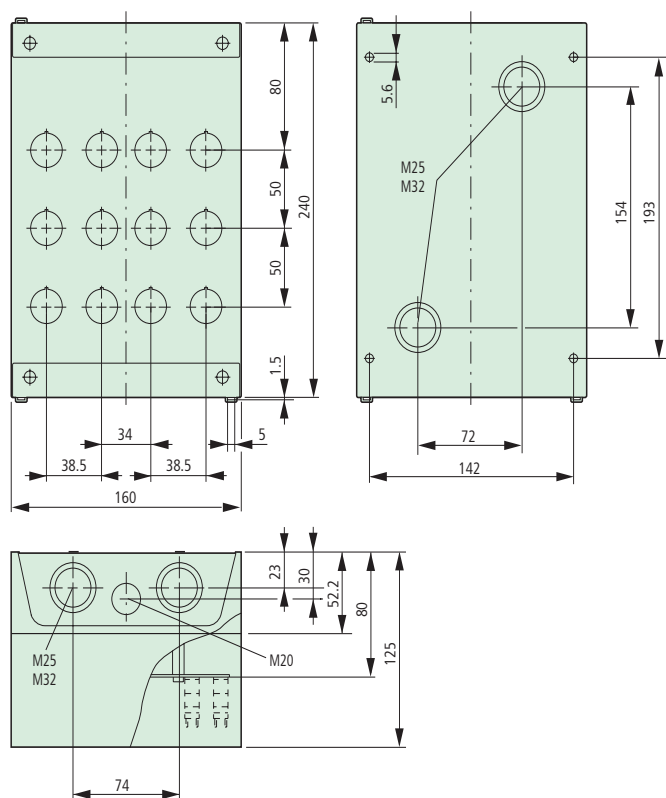
M22-UPE



- ① Box for closing off when plastering
- ② Plaster thickness less than 8 mm
- ③ Plaster thickness more than 8 mm

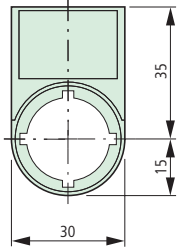
Surface mounting enclosure for 12 mounting locations

M22-I12

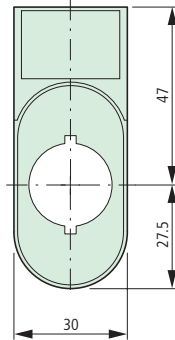


Label mounts

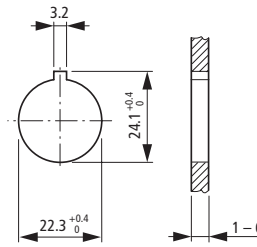
M22-ST



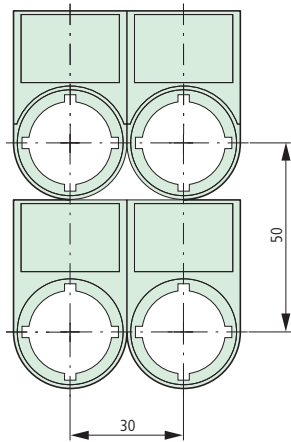
M22-STDD



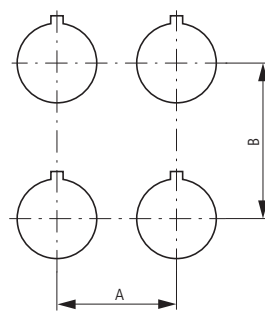
Mounting hole with lug slot



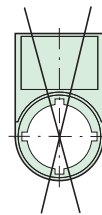
Grid dimension to IEC/EN 60947



Grid dimension for various combinations

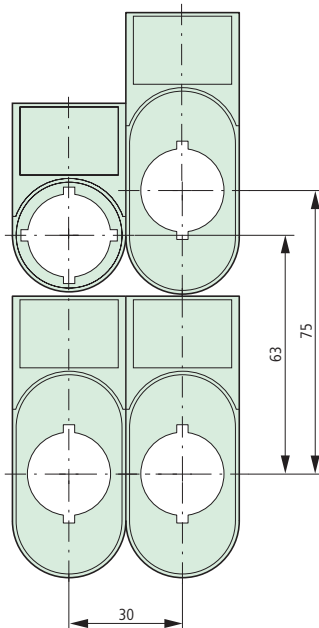


Pushbutton diaphragm
Cannot be combined with label mount

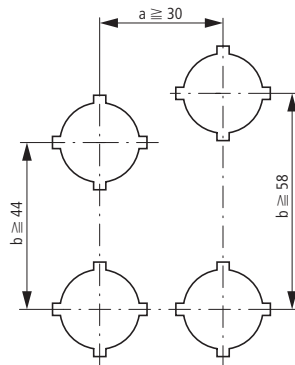


| Type | A ≙ mm | B ≙ mm |
|----------------------------|-----------|-----------|
| M22(S)-...(IEC/EN 60947) | 30 | 50 |
| RMQ-Titan min. | 30 | 40 |
| M22-D... + M22-T-D | 33 | 40 |
| M22-D(R)P... | 38 | 40 |
| M22-PV... | 38 | 40 |
| M22-PV(L) + M22-PL-PV | 48 | 56 |
| M22-PV(L)(S...) + M22-D... | 33 | 40 |
| M22-DDL... | 30 | 55 |
| M22-DDL... + M22-T-DD | 33 | 58 |
| M22-ST... | 30 | 50 |
| M22-STDD... | 30 | 75 |
| M22-CK... | 30 | 45 |
| M22-CLED... | 30 | 45 |
| M22-XAK... | 90 | 90 |
| M22-XZK... | 33 | 52 |
| M22-XBK... | 60 | 60 |
| M22-XYK... | 50 | 50 |
| M22-D4 | 55 | 55 |
| M22-WR...4 | 50 | 50 |
| M22-W...J4 | 50 | 50 |

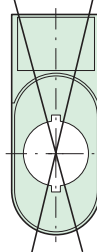
Grid dimension for M22-DD...



Grid dimension for M22-DDL pushbutton diaphragm
M22-T-DD



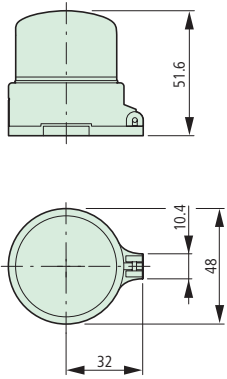
Pushbutton diaphragm
Cannot be combined with label mount



Moeller HPL0211-2004/2005

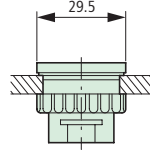
Emergency-Stop sealable shroud

M22-PL-PV



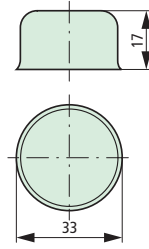
Blanking plug

M22-B



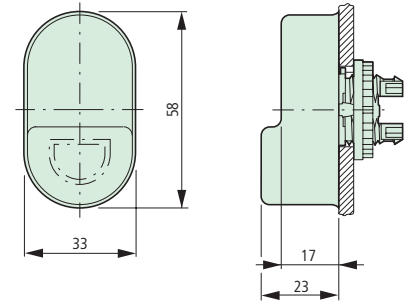
Pushbutton diaphragm

M22-T-D



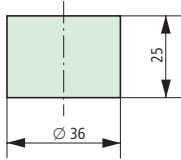
Pushbutton diaphragm

M22-T-DD

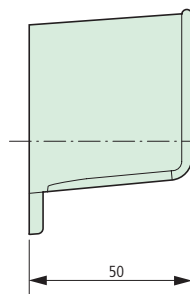
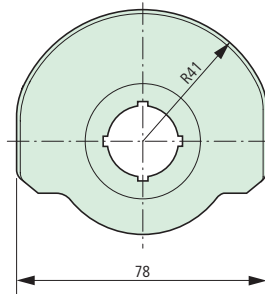


Guard ring

M22-XGWK

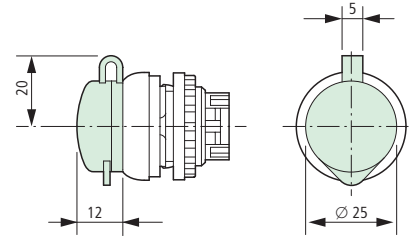


M22-XGPV



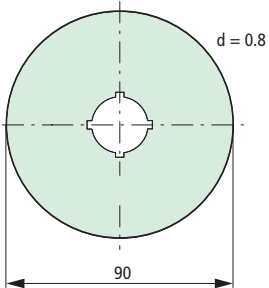
Protective membrane

M22-XWS

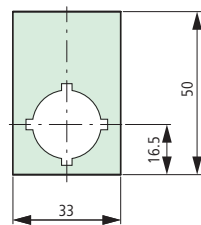


Emergency-Stop label

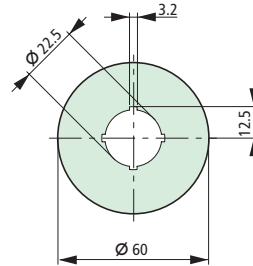
M22-XAK



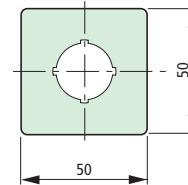
M22-XZK...



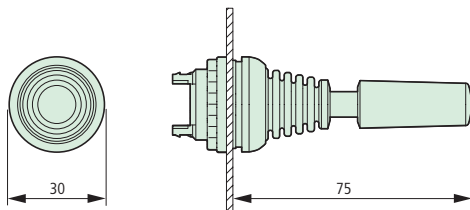
M22-XBK...



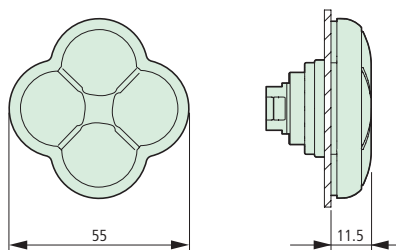
M22-XYK...



Joystick



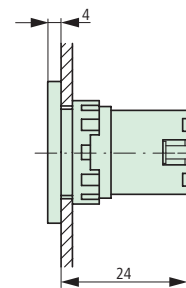
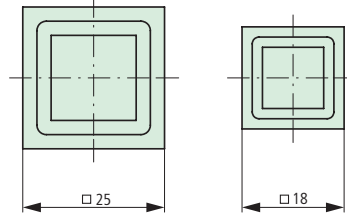
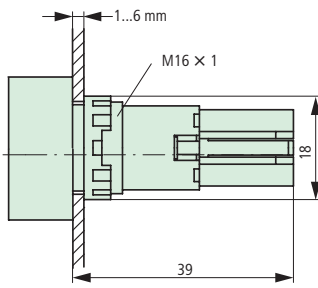
4-way pushbutton



Actuating- and indicator elements

Square style

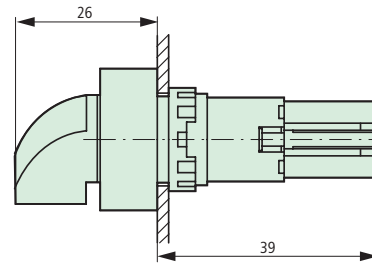
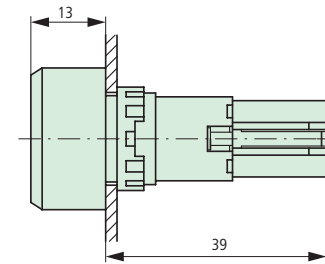
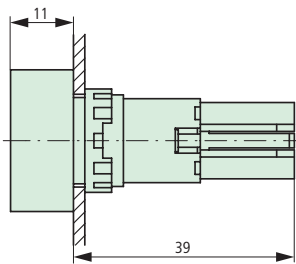
Q...BS



Q...D-...
Q...DR-...

Q...S...

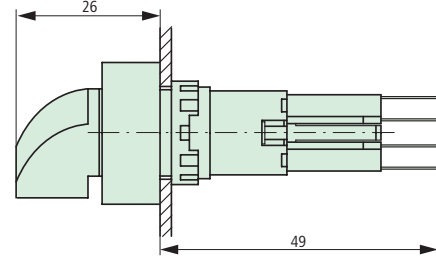
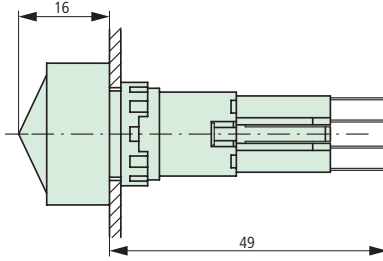
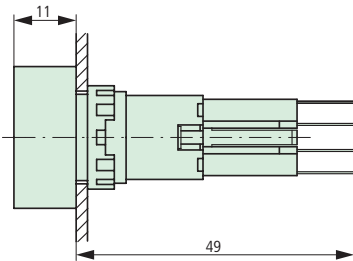
Q...WK...



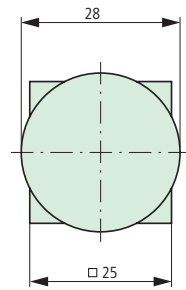
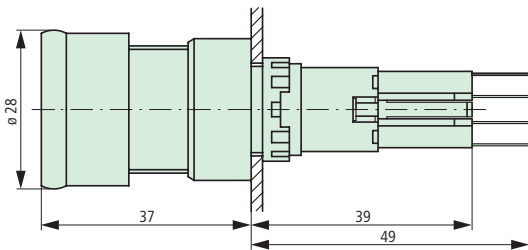
Q...LT-...
Q...LTR-...
Q...LF-...

Q...LH-...

Q...LWK-...



Q25PV
Q25LPV

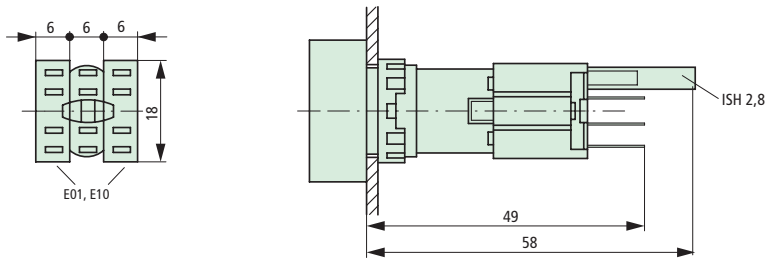


Control Circuit Devices
RMQ16

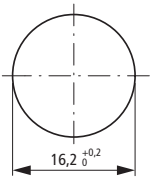


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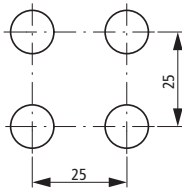
Front fixing



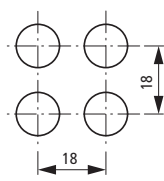
Drilling dimensions



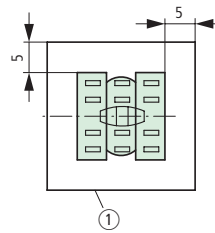
Grid dimension to IEC/EN 60 947 Q25...



Minimum grid dimension Q18...



Mounting distance



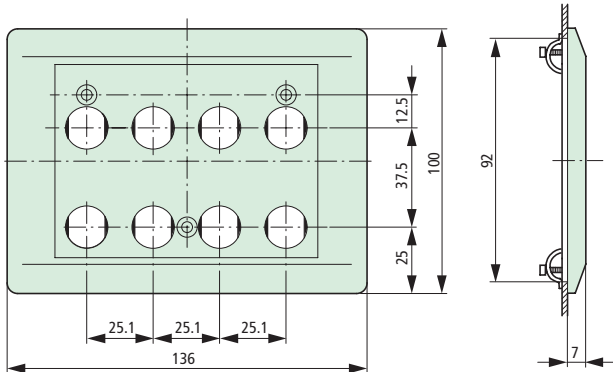
① Exposed conductive part (metal)

Control Circuit Devices
RMQ16



Flush mounting panel

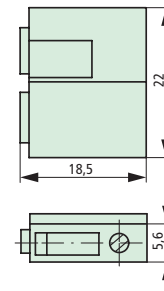
E8/E8-SW



Cutout dimension: 92 × 94 mm

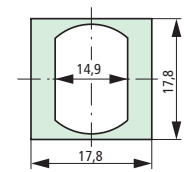
Screw adapter

SRA...



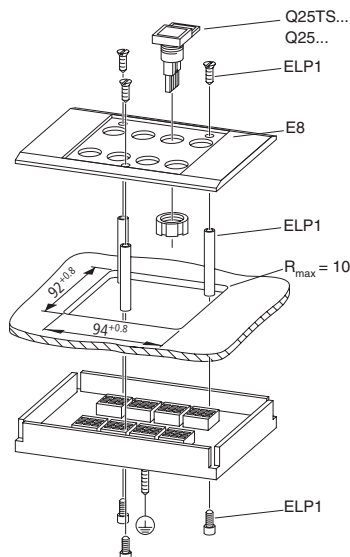
Anti-rotation feature

VS



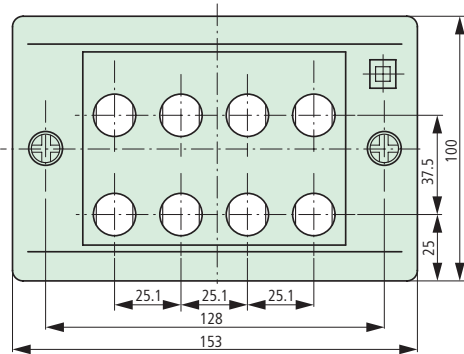
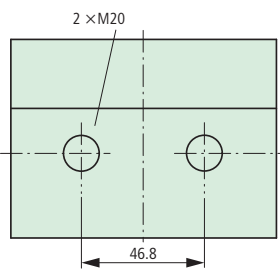
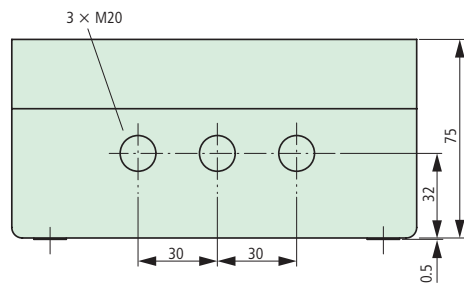
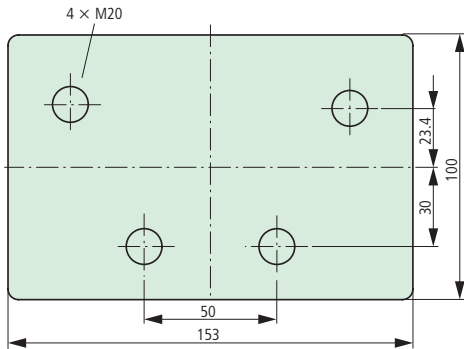
Customised complete units

M16-COMBINATION-(*)



Surface mounting enclosure

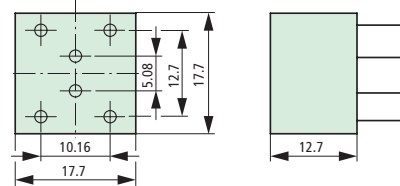
I8



Fixing holes: $2 \times \varnothing 4.5 \text{ mm}$
Distance: 128 mm

PCB adapter

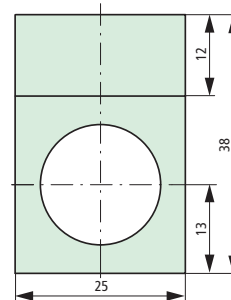
PRA16



Cross-section of solder: $0.6 \times 0.6 \text{ mm}$

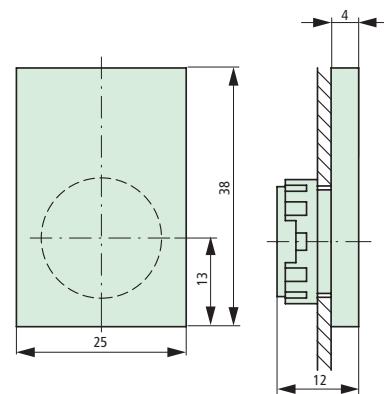
Label mount

Q25TS...



Blanking plate

Q25AS

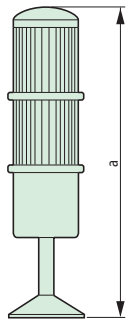


Control Circuit Devices
RMQ16



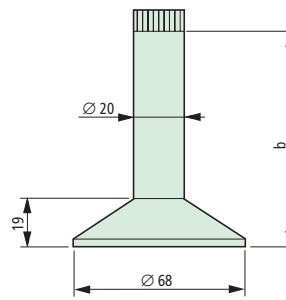
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SL-100-... complete units

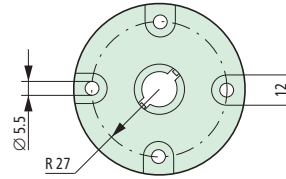


| Quantity of modules | a |
|---------------------|-----|
| 1 | 227 |
| 2 | 289 |
| 3 | 351 |
| 4 | 413 |
| 5 | 475 |

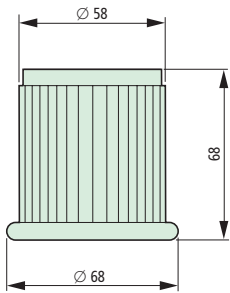
SL-F... stand
With tube



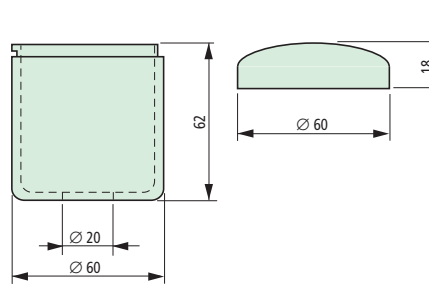
| | b |
|---------|-----|
| SL-F100 | 85 |
| SL-F250 | 235 |
| SL-F400 | 402 |
| SL-F800 | 802 |



Modules SL-L-..., SL-FL...
SL-BL-..., SL-A-...



SL-(C)B... base module
With cap



SL-FW fixing bracket

