

Pushbutton and Indicating Light A22

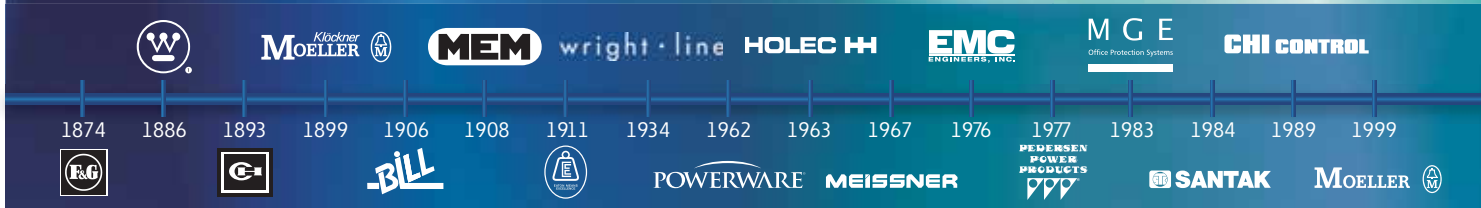


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Pushbutton and indicating light A22



Pushbutton and indicating light A22

| | |
|---|----|
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| Complete pushbutton units for surface mounting, compact indicating light. | 4 |
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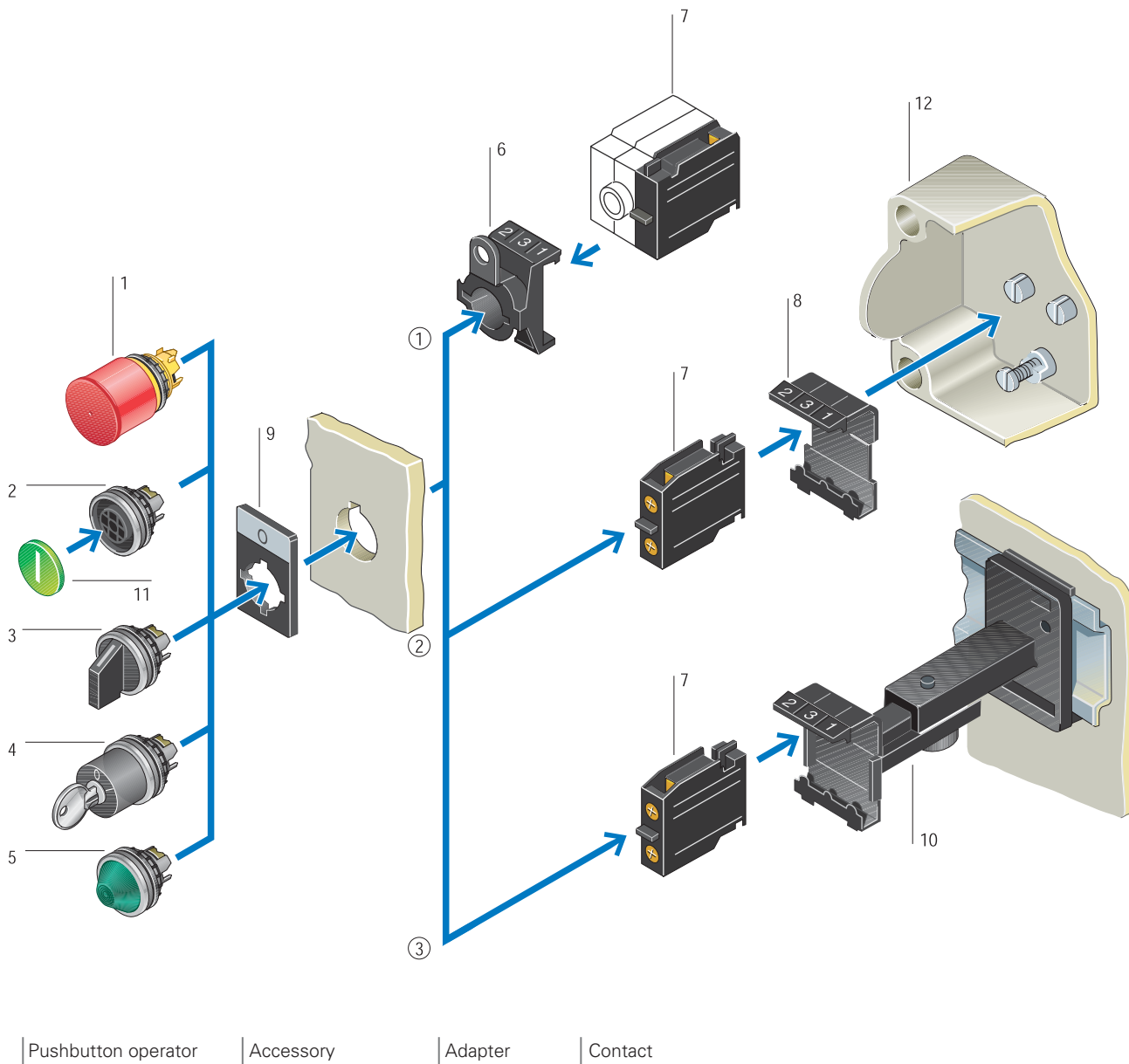
Pushbutton and indicating light A22

In accordance with IEC/EN 60947 and VDE0660
 Modular structure is suitable for different application requirements
 They can be mounted without any need for tools
 Contact blocks are finger touch safe
 Up to 6 contact blocks can be mounted on each mounting location



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System overview



A22 can be mounted in three ways to meet different mounting requirements.

① **Flush mounting** – Take the mounting and control station as an example. Use front mounting adapters to fasten front components and functional parts

② **Surface mounting** – To be mounted onto the insulation enclosure. Use bottom mounting adapters to fasten breaker components.

③ **Rear mounting** – Use bottom mounting adapters to get installed into the control cabinet door. In this case, telescopic clips are needed for adjusting cabinet depth. Use center adapters to make sure that all pushbutton parts are connected together when the cabinet door is closed.

Emergency stop operator 1

Additional legend plate with or without legends
See Page 5

Pushbutton operator 2

Spring-return and self locking
Flush operator
Mushroom head operator
Double operator, Illuminated pushbutton with transparent button lens
Color: white, green, red, yellow, blue
See Page 6

Selector switch operator 3

Two positions and three positions
With thumb grip, Programmable spring-return/self locking functions
Color: white, green, red, yellow, blue
See Page 7

Key operated selector switch operator 4

Two positions or three positions
Programmable spring-return/self locking functions and key withdrawable locations
See Page 7

Illuminated operator/indicating light 5

Flush and conical designs
For filament bulbs, neon bulbs and LED elements, Color: white, green, red, yellow, blue. See Page 8

Product features

Modular structure with snap fitting
Circular shape
Chrome plated front ring

Mounting Adaptor 6

For front mounting
For contact blocks and lamp socket blocks
See Page 9

Contact block 7

With one or two contacts, Universal contact suitable for electronic circuits
Safety function by compulsory opening according to IEC/EN 60947-5-1
See Page 9

Lamp socket block 7

For filament bulb, neon bulb and LED elements. Built-in bulb test function
See Page 10

Mounting adapter 8

For surface mounting and rear mounting
For contact mounting and lamp socket mounting, See Page 9

Legend plate 9

For button lens
Color: Grey or black
Aluminum button lens, with or without legends, See Page 12

Telescopic clip 10

For adjusting mounting depth for rear mounting devices in CI enclosures and control cabinets
For mounting depth 125-157mm
See Page 13

Button plate/button lens 11

Anti-wear button plate, for pushbutton, selector switch and double operator
Transparent button lens, for illuminated pushbutton and flush indicating light
With symbol legends
See Page 11

Enclosure 12








































IP65
Up to 5 mounting locations
See Page 12

Mounting diameter : 22.3mm
Minimum grid dimension:
30x40mm (H*W)
Degree of protection:IP65

Up to 6 pairs of contacts per mounting location
Applicable for different voltages




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Complete pushbutton units for flush mounting




| | Button plate | Contact configuration ⊕=safety function, by compulsory switching to IEC/EN 60947-5-1 N/O = Normally open N/C= Normally closed | Contact sequence | Color Pushbutton Illuminated pushbutton Indicating light | Part No. Article No. | Standard. Package | |
|--|--|---|---|---|---------------------------------------|---------------------------------------|----------|
| Pushbutton , IP65 | | | | | | | |
| Flush operator | | | | | | | |
|  |  | 1 N/O |  | – | A22-RD-11/K10 261366 | 5 pieces | |
| |  | 1 N/C ⊕ |  | – | A22-RD-10/K01 261368 | 5 pieces | |
| |  | 1 N/O | 1 N/C ⊕ |  | – | A22-RD-11/K11 254405 | 5 pieces |
| |  | 1 N/O | 1 N/C ⊕ |  | – | A22-RD-10/K11 254406 | 5 pieces |
| |  | 1 N/O | 1 N/C ⊕ |  | – | A22-RD-01/K11 9000060600051 | 5 pieces |
| |  | 1 N/O | 1 N/C ⊕ |  | – | A22-RD-03/K11 9000060600052 | 5 pieces |
| |  | 1 N/O | 1 N/C ⊕ | – | A22-RD-04/K11 9000060600053 | 5 pieces | |
| Mushroom head operator, IP65 | | | | | | | |
|  |  | 1 N/O | – | – | A22-RP-GN11/K10 254407 | 5 pieces | |
| Illuminated double operator, IP65 | | | | | | | |
| White scattering lens, with 24V filament bulb | | | | | | | |
|  |   | 1 N/O | 1 N/C ⊕ |  | – | A22-QDDL-11/10/K11/F 254408 | 5 pieces |
| Key-release mushroom head operator, IP65 | | | | | | | |
| With 2 keys , independent locking mechanism KMS1 | | | | | | | |
|  | – | 1 N/C ⊕ |  |  | A22-RPSR/K01 254409 | 5 pieces | |
| Illuminated pushbutton, IP65 | | | | | | | |
| Flush design with filament bulb BA 9s, 2.4 W/130 V external voltage 230V | | | | | | | |
|  | – | 1 N/O |  |  | A22-RLT-WS/K10/FR 254410 | 5 pieces | |
| | – | 1 N/O |  |  | A22-RLT-GN/K10/FR 254411 | 5 pieces | |
| | – | 1 N/C ⊕ |  |  | -A22-RLT RT/K01/FR 254412 | 5 pieces | |
| Indicating lights , IP65 | | | | | | | |
| Conical design, with filament bulb BA 9s, 2.4 W/130 V external Voltage 230V | | | | | | | |
|  | – | |  |  | A22-RL-WS/FR 254413 | 5 pieces | |
| | – | |  |  | A22-RL-GN/FR 254414 | 5 pieces | |
| | – | |  |  | A22-RL-RT/FR 254415 | 5 pieces | |
| | – | |  |  | A22-RL-GE/FR 254416 | 5 pieces | |

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Complete pushbutton units for surface mounting

| Mounting locations | Contact configuration | Contact sequence | Contact sequence diagram | Color of pushbutton enclosure | Part No. Article No. | Standard. Package |
|--|-----------------------|------------------|--------------------------|---|---------------------------------|-------------------|
| Pushbutton, IP65 Flush operator  | 1 | 1 N/O | 1 N/C \rightarrow |  | A22-RD-11/KC/I 254417 | 1 pieces |
| | 1 | 1 N/O | 1 N/C \rightarrow |  | A22-RD-10/KC/I 254418 | 1 pieces |

| Applicable for | Color | Part No. Article No. | Standard. Package |
|--|---|---|-------------------|
| Indicating light, compact design, IP65 LED elements, 50000h  | 24V AC/DC |  A22-LCLED24-W 108186 | 10 pieces |
| | |  A22-LCLED24-R 108187 | 10 pieces |
| | |  A22-LCLED24-G 108188 | 10 pieces |
| | |  A22-LCLED24-Y 108189 | 10 pieces |
| | |  A22-LCLED24-B 108190 | 10 pieces |
| | 110V AC/DC |  A22-LCLED110-W 108191 | 10 pieces |
| | |  A22-LCLED110-R 108192 | 10 pieces |
| | |  A22-LCLED110-G 108193 | 10 pieces |
| | |  A22-LCLED110-Y 108194 | 10 pieces |
| | |  A22-LCLED110-B 108195 | 10 pieces |
| | 220V AC/DC |  A22-LCLED220 116040 | 10 pieces |
| | |  A22-LCLED220 116039 | 10 pieces |
| |  A22-LCLED220 116038 | 10 pieces | |
| |  A22-LCLED220 116041 | 10 pieces | |
| |  A22-LCLED220 116037 | 10 pieces | |
| 380V AC |  A22-LCLED380AC-W 108206 | 10 pieces | |
| |  A22-LCLED380AC-R 108207 | 10 pieces | |
| |  A22-LCLED380AC-G 108208 | 10 pieces | |
| |  A22-LCLED380AC-Y 108209 | 10 pieces | |
| |  A22-LCLED380AC-B 108210 | 10 pieces | |

| | | | | | | | |
|---|-----|-------|---------------------|---|---|---------------------------------------|----------|
| Selector switch  | 60° | 1 N/O | 1 N/C \rightarrow |  |  | A22-RWKIR/K11 9000060600050 | 5 pieces |
|---|-----|-------|---------------------|---|---|---------------------------------------|----------|

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Complete units for emergency stop switch, emergency stop operator, emergency stop plate

Contact configuration
 ⤴=safety function, by compulsory switching to IEC/EN 60947-5-1
 N/O = Normally open N/C= Normally closed

Contact sequence

Button color

Part No.
Article No.

Standard package.

Complete emergency stop switch units for surface mounting, IP65

Emergency stop pushbutton, tamper-proof to ISO 13850/EN 418
 Pull to reset, maximum number of mountable contact blocks: 3 x A22-EK...C



1N/O

1N/C



A22-RPV/KC/I
254419

1 pieces

Emergency stop operator (pull to reset), IP65

Maximum number of mountable contact blocks: 2 x A22-EK...; 2 x A22-EC...;
 3 x A22-EK...C



—



A22-RPV
254427

5 pieces

Emergency stop operator (turn to reset), IP65

Maximum number of mountable contact blocks: 2 x A22-EK...; 2 x A22-EC...;
 3 x A22-EK...C



A22-E-STOP HEADER
1433001010226

5 pieces

Key-release emergency stop mushroom head operator, IP65

With 2 keys
 Individual locking mechanism KMS1
 Master key



—



A22-RPSR
254426

5 pieces

Description

Language

Color

Part No.
Article No.

Standard package.

Emergency stop pushbutton plate, IP65



N/A



A22-1AK
254497

10 pieces

EMERGENCY STOP

English














A22-1AK-299
254498






10 pieces









Pushbutton and Indicating Light A22

Pushbutton operators, double operator, mushroom head operator

| | Button plate/mushroom head symbol | Color | Part No. Article No. | Part No. Article No. | Standard package. |
|---|---|-------|------------------------------------|-------------------------------------|-------------------|
| Pushbutton operator, IP65 | | | | | |
| Flush operator | | | | | |
|  |  | – | A22-RD-11 254420 | A22-RDR-11 90000060600007 | 10 pieces |
| |  | – | A22-RD-10 254421 | A22-RDR-10 90000060600008 | 10 pieces |
| |  | – | A22-RD-01 92406700000030 | A22-RDR-01 90000060600009 | 10 pieces |
| |  | – | A22-RD-03 92406700000028 | A22-RDR-03 90000060600010 | 10 pieces |
| |  | – | A22-RD-04 92406700000029 | A22-RDR-04 90000060600011 | 10 pieces |
|  | N/A | – | A22-RD-X 254422 | A22-RDR-X 90000060600012 | 10 pieces |

| | Button plate/mushroom head symbol | Color | Part No. Article No. | Standard package. |
|---|---|-------|--|-------------------|
| Double operator, IP65 | | | | |
| White scattering lens Power with indicating light: up to 2W | | | | |
|  |  | – | A22-QDDL-11 /10 254423 | 5 pieces |
| |  | – | A22-QDDL-11 /11 90000060600010 | 5 pieces |
| |  | – | A22-QDDL-01 /01 90000060600049 | 5 pieces |

| | | | | |
|---|---|---|------------------------------|----------|
| Mushroom head operator, IP65 | | | | |
| Spring return | | | | |
|  |  |  | A22-RP-GN11 254424 | 5 pieces |
| |  |  | A22-RP-RT10 254425 | 5 pieces |

| | | | | |
|---|---|---|---------------------------------------|----------|
| Raised head operator, IP65 | | | | |
| Spring return | | | | |
|  |  |  | A22-RHD-GN11 90000060600013 | 5 pieces |
| |  |  | A22-RHD-RT10 90000060600014 | 5 pieces |
| |  |  | A22-RHD-SW01 90000060600015 | 5 pieces |
| | N/A |  | A22-RHD-GNX 90000060600016 | 5 pieces |
| | N/A |  | A22-RHD-RTX 90000060600017 | 5 pieces |
| | N/A |  | A22-RHD-SWX 90000060600018 | 5 pieces |

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Select switch operator, key-operated switch operator

| | Function | | Key withdrawable position | Color. | Part No. Article No. | Standard package. | |
|--|---|---|---------------------------|--------|---|----------------------------------|----------|
| Selector switch operator, IP65 | | | | | | | |
| Two positions | | | | | | | |
| With thumb grip | | | | | | | |
|  |  | 60° | | ● | A22-RWK1R 254428 | 5 pieces | |
| |  | 45° | | ● | A22-RWK1 254429 | 5 pieces | |
| With long grip | | | | | | | |
|  |  | 60° | | ● | A22-RWH1R 111728 | 5 pieces | |
| |  | 45° | | ● | A22-RWH1 111727 | 5 pieces | |
| |  | 90° | | ● | A22-RWH1V 111729 | 5 pieces | |
| Self locking, not changeable with coding adapter | | | | | | | |
|  |  | 90° | | ● | A22-RWK1V 261369 | 5 pieces | |
| Three positions | | | | | | | |
| With thumb grip | | | | | | | |
|  | 60° |  | 60° | ● | A22-RWK3R 254430 | 5 pieces | |
| | 45° |  | 45° | ● | A22-RWK3 254431 | 5 pieces | |
| With long grip | | | | | | | |
|  | 60° |  | 60° | ● | A22-RWH3R 111744 | 5 pieces | |
| | 45° |  | 45° | ● | A22-RWH3 111743 | 5 pieces | |
| | 60° |  | 45° | ● | A22-RWH3R1 111745 | 5 pieces | |
| | 45° |  | 60° | ● | A22-RWH3R2 111746 | 5 pieces | |
| Selector switch operator, IP65 | | | | | | | |
| Two positions | | | | | | | |
| Individual lock mechanism, master key, with 2 keys | | | | | | | |
| Self locking/spring return function and key withdrawable positions can be set and changed by coding adapter A22-SP-RMQ. Lock mechanism KMS1. | | | | | | | |
|  |  | 60° | I 0 | – | A22-RS 254432 | 5 pieces | |
| |  | 45° | 0 | | A22-RS-KMS1-A2 92406700000031 | 5 pieces | |
| Three positions | | | | | | | |
| Individual lock mechanism, master key, with 2 keys | | | | | | | |
| 2 contact blocks can be mounted. Self locking/spring return function and key withdrawable positions can be set and changed by coding adapter A22-SP-RMQ. | | | | | | | |
|  | 60° |  | 60° | I 0 II | – | A22-RS3 254433 | 5 pieces |
| | 45° |  | 45° | 0 | – | A22-RS3-KMS1-A4 254434 | 5 pieces |

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Illuminated operator, indicating light

| | Color. | Part No. Article No. | Standard package. | |
|---|---|------------------------------------|--|-----------|
| Illuminated operator, IP65 | | | | |
| Front ring chromium plated | | | | |
| Flush | | | | |
| Spring return | | | | |
|  |  | A22-RLT-WS11 254435 | 10 pieces | |
| |  | A22-RLT-WS 254436 | 10 pieces | |
| |  | A22-RLT-GN 254437 | 10 pieces | |
| |  | A22-RLT-RT 254438 | 10 pieces | |
| |  | A22-RLT-GE 254439 | 10 pieces | |
| |  | A22-RLT-BL 9240470000050 | 10 pieces | |
| Self locking | | | | |
| ower with indicating light: up to 1.2W | | | | |
|  |  | A22-RLTR-WS 254445 | 5 pieces | |
| |  | A22-RLTR-GN 254446 | 5 pieces | |
| |  | A22-RLTR-RT 254447 | 5 pieces | |
| |  | A22-RLTR-GE 254448 | 5 pieces | |
| Raised head | | | | |
|  | | Spring return | Self locking | |
| |  | A22-RLTH-WS11 254440 | A22-RLTHR-WS11 9000060600001 | 10 pieces |
| |  | A22-RLTH-WS 254441 | A22-RLTH R-WS 9000060600002 | 10 pieces |
| |  | A22-RLTH-GN 254442 | A22-RLTHR-GN 9000060600003 | 10 pieces |
| |  | A22-RLTH-RT 254443 | A22-RLTH R-RT 9000060600004 | 10 pieces |
| |  | A22-RLTH-GE 254444 | A22-RLTHR-GE 9000060600005 | 10 pieces |
| |  | | A22-RLTHR-BL 9000060600006 | 10 pieces |
| Indicating light, IP65 | | | | |
| Flush | | | | |
| Without front ring | | | | |
|  |  | A22-RLF-WS 262645 | 10 pieces | |
| |  | A22-RLF-GN 262653 | 10 pieces | |
| |  | A22-RLF-RT 262654 | 10 pieces | |
| |  | A22-RLF-GE 262655 | 10 pieces | |
| |  | A22-RLF-BL 262656 | 10 pieces | |
| Conical | | | | |
| Front ring chromium plated | | | | |
|  |  | A22-RL-WS 254449 | 25 pieces | |
| |  | A22-RL-GN 254450 | 25 pieces | |
| |  | A22-RL-RT 254451 | 25 pieces | |
| |  | A22-RL-GE 254452 | 25 pieces | |

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Mounting adapter, contact block

Contacts
M=normally open,
B=normally closed
⊕= safety function by compulsory
switching to IEC/EN 60947-5-1

Contact
sequence

Circuit
diagram

Configuration

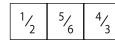
Part No.
Article No.

Standard
package.

Mounting adapte

Flush mounting

For A22-EK, A22-EC, A22-EF(R), contact block and lamp socket block
Serial number on mounting adapters

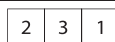


A22-BE6
254453

10 pieces

Surface/rear mounting

For A22-E...C contact block
Serial number on mounting adapters



A22-BE3C
254461

25 pieces

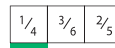
Contact block

Flush mounting

One contact
For A22-BE6 and A22-BE3C mounting adapters



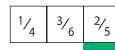
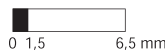
1M



A22-EK10
254454

20 pieces

1B ⊕



A22-EK01
254455

20 pieces

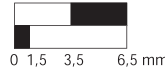
Two contacts

For A22-BE6 mounting adapter



1M

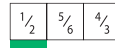
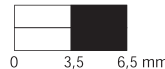
1B ⊕



A22-EC11
254456

10 pieces

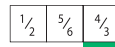
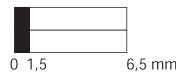
2M



A22-EC20
254457

10 pieces

2B ⊕



A22-EC02
254458

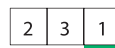
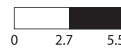
10 pieces

Surface/rear mounting

One contact
For A22-BE3C mounting adapters



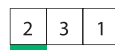
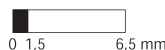
1M



A22-EK10C
254462

20 pieces

1B ⊕



A22-EK01C
254463

20 pieces

Configuration explanation: Configuration for mounting adapters with sequence numbers is in accordance with EN50013

$\begin{matrix} | \\ |^{xy} \end{matrix}$ X=Position number on mounting adapters

$\begin{matrix} | \\ |_{xy} \end{matrix}$ Y=Position number on contact blocks

















Pushbutton and Indicating Light A22

Lamp socket block

| | Bulb voltage | Bulb voltage, resistance | Configuration | Part No. Article No. | Standard package. | | | | | | |
|---|---|--------------------------|--|------------------------------------|-------------------|---|--|--|--|---------------------------|-----------|
| Lamp socket block BA 9s | | | | | | | | | | | |
| Without bulb; for A22-BE6 and A22-BE3C mounting adapters | | | | | | | | | | | |
| Flush mounting | | | | | | | | | | | |
| For filament bulbs, neon bulbs or LED elements | | | | | | | | | | | |
|  |  | ⊗ max. 2W | <table border="1"><tr><td>1</td><td>3</td><td>2</td></tr><tr><td></td><td style="background-color: green;"></td><td></td></tr></table> | 1 | 3 | 2 | | | | A22-E F 254459 | 10 pieces |
| 1 | 3 | 2 | | | | | | | | | |
| | | | | | | | | | | | |
|  |  | ⊗ max. 2.4W, R=7.5kΩ | <table border="1"><tr><td>1</td><td>3</td><td>2</td></tr><tr><td></td><td style="background-color: green;"></td><td></td></tr></table> | 1 | 3 | 2 | | | | A22-EFR 254460 | 10 pieces |
| 1 | 3 | 2 | | | | | | | | | |
| | | | | | | | | | | | |
| Surface/rear mounting | | | | | | | | | | | |
| For 130V filament bulb, connecting to 110V-130V voltage | | | | | | | | | | | |
|  |  | ⊗ max. 2W | <table border="1"><tr><td>2</td><td>3</td><td>1</td></tr><tr><td></td><td style="background-color: green;"></td><td></td></tr></table> | 2 | 3 | 1 | | | | A22-EFC 254464 | 10 pieces |
| 2 | 3 | 1 | | | | | | | | | |
| | | | | | | | | | | | |
|  |  | ⊗ max. 2.6W, R=6.8kΩ | <table border="1"><tr><td>2</td><td>3</td><td>1</td></tr><tr><td></td><td style="background-color: green;"></td><td></td></tr></table> | 2 | 3 | 1 | | | | A22-EFRC 254465 | 10 pieces |
| 2 | 3 | 1 | | | | | | | | | |
| | | | | | | | | | | | |
| | Applicable for | | Color | Part No. Article No. | Standard package. | | | | | | |
| Filament bulb BA 9s | | | | | | | | | | | |
| Maximum length 28mm, 10mm | | | | | | | | | | | |
|  | 110...130 V/2.4W | | – | A22-G L130 261361 | 100 pieces | | | | | | |
| | 24 V/2.0W | | – | A22-G L24 261360 | 100 pieces | | | | | | |
| LED elements BA 9s | | | | | | | | | | | |
| AC and DC voltage, (positive pole connected to X1) | | | | | | | | | | | |
| Avoid polarity reverse, with built-in suppression circuit up to 1500V, 10000h | | | | | | | | | | | |
|  | 18...30 V AC/DC 15mA | | ○ | A22-LED-W 261362 | 10 pieces | | | | | | |
| | | | ● | A22-LED-R 261364 | 10 pieces | | | | | | |
| | | | ● | A22-LED-G 261363 | 10 pieces | | | | | | |
| | | | ● | A22-LED-Y 261365 | 10 pieces | | | | | | |
| | 240 V AC/DC | | ○ | A22-LED230-BA9S-W 111509 | | | | | | | |
| | | | ● | A22-LED230-BA9S-R 111510 | | | | | | | |
| | | | ● | A22-LED230-BA9S-G 111511 | | | | | | | |
| | | | ● | A22-LED230-BA9S-Y 111512 | | | | | | | |
| | | | ● | A22-LED230-BA9S-B 111513 | | | | | | | |

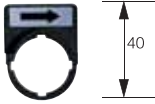
Pushbutton and Indicating Light A22

Accessory

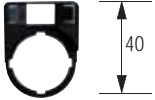
| | Symbol color | Part No. Article No. | Standard package. |
|--|---|---------------------------|----------------------|
| Legend plate | | | |
| Symbol In accordance with DIN 30600 | | | |
| Stop |  | A22-10T 254472 | 25 pieces |
| Start |  | A22-11 T 254473 | 25 pieces |
| Start |  | A22-12T 254474 | 25 pieces |
| Start |  | A22-13T 254475 | 25 pieces |
| Start |  | A22-14T 254478 | 25 pieces |
| Stop or OFF |  | A22-19T 254479 | 25 pieces |
| Start or make |  | A22-20T 254480 | 25 pieces |
| Increase |  | A22-37T 254481 | 25 pieces |
| Decrease |  | A22-38T 254482 | 25 pieces |
| Directional change |  | A22-32T 254483 | 25 pieces |
| Blank | | | |
| |  | A22-01T 254466 | 25 pieces |
| |  | A22-02T 254467 | 25 pieces |
| |  | A22-03T 254468 | 25 pieces |
| |  | A22-04T 254469 | 25 pieces |
| |  | A22-05T 254470 | 25 pieces |
| |  | A22-06T 254471 | 25 pieces |

Pushbutton and Indicating Light A22


Accessory

| | Symbol | Color | Part No. Article No. | Standard package. |
|---|-----------|------------------------------|------------------------------|-------------------|
| Legend plate with button lens Aluminum panel, button lens, black text | | | | |
|  | → | – | A22-RAS-32 254488 | 25 pieces |
| | ← | – | A22-RAS-33 254489 | 25 pieces |
| | O I | – | A22-RAS-90 254490 | 25 pieces |
| | I O II | – | A22-RAS-93 254491 | 25 pieces |
| | O I | – | A22-RAS-98 254492 | 25 pieces |
| | STOP | – | A22-RAS-110 254493 | 25 pieces |
| | START | – | A22-RAS-111 254494 | 25 pieces |
| | MAN./AUTO | – | A22-RAS-395 254495 | 25 pieces |
| MAN. O AUTO | – | A22-RAS-397 254496 | 25 pieces | |

| | | | | | |
|---|-----------------|---|---|----------------------------|-----------|
| Legend plate without button lens | | | | | |
| Type No: A... | W × H : 30×40mm | – | ● | A22-RAS-X 254486 | 25 pieces |
| | W × H : 30×50mm | – | ● | A22-RBS-X 271391 | 25 pieces |




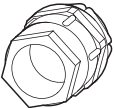


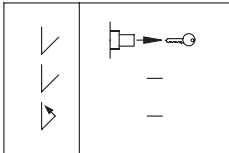





| | | | | | |
|--|-----------------|---|---|---------------------------------|------------|
| Button lens Aluminum panel, inscriptive, printable | | | | | |
|  | W × H : 30×10mm | – | – | A22-XA 254487 | 100 pieces |
| | W × H : 30×20mm | – | – | A22-XB 90000060216480 | 100 pieces |

| | Mounting locations | Cable entry knockouts | | Number of bulbs mounted simultaneously | Color | Part No. Article No. | Price See pricelist | Standard package. |
|--|--------------------|-----------------------|-------------------|--|-------|-------------------------|------------------------|-------------------|
| | | Bottom Qty*M... | Sides Qty*M... | | | | | |
| Aluminum panel, inscriptive, printable | | | | Quantity | | | | |

| | | | | | | | | |
|---|---------------------------|---|----------|--------|---|---|----------------------------|----------|
| Flush mounting pushbutton enclosure IP65 | | | | | | | | |
|  | For emergency stop switch | 1 | 1 x 13.5 | 3 x 16 | – | ● | A22-IGE1M 254499 | 1 pieces |
| | | 1 | 1 x 13.5 | 3 x 16 | 1 | ● | A22-11M 254500 | 1 pieces |
| | | 2 | 2 x 13.5 | 3 x 16 | 2 | ● | A22-12M 254501 | 1 pieces |
| | | 3 | 3 x 13.5 | 4 x 16 | 2 | ● | A22-13M 254502 | 1 pieces |
| | | 4 | 4x 13.5 | 4x 16 | 3 | ● | A22-14M 254503 | 1 pieces |
| | | 5 | 5x 13.5 | 4x 16 | 4 | ● | A22-15M 255802 | 1 pieces |

Pushbutton and Indicating Light A22

Accessory

| | Applicable for | Color | Part No. Article No. | Standard package. |
|---|--|--|---|----------------------------------|
| Blanking plugs For closing off spare mounting locations | | | | |
|  | Round |  | M 22-B 216388 | 50 pieces |
| Telescopic clip For adjusting the mounting depth of rear mounting devices in CI enclosure and panels with a mounting depth of 125-157mm. Stepless adjustment of 64-95mm by rulers, screw fixing and snap fitting. Us A22-BE3C mounting adaptor to fasten rear components. Maximum of 10 A22-TC-RMQ per CI enclosure, 5 of which can hold self locking operators. Do not use in conjunction with emergence stop operators. | | | | |
|  | | — | A22-TC-RMQ 254504 | 5 pieces |
| Cable glands PG13.5 IP68,69K Cable diameter 6-12mm | | | | |
|  | | — | STBZ13,5 036307 | 20 pieces |
| Box spanner | | | | |
|  | Internal threaded ring; can be fitted on electric screwdriver, for use in A22 or M22 series pushbutton | — | M22-MS 216402 | 5 pieces |
| Set of coding adapters For setting and changing self locking/spring return functions and key withdrawable locations; it includes two parts | | | | |
|  |  |    | A22-SP-RMQ 254507 A22-SP-RMQ 254507 A22-SP-RMQ 254507 | 5 pieces 5 pieces 5 pieces |
| Symbol indication:  locked  Spring return | | | | |

Pushbutton and Indicating Light A22

Technical data

| Unit | | | Pushbutton , Mushroom head operator | Double operator ¹⁾ | Selector switch | Key release switch |
|---|--------------|-------------------|---|-------------------------------|-----------------|--------------------|
| Overview | | | | | | |
| Standards | | | IEC/EN 60947, VDE 0660 | | | |
| Mechanical life | Operations | x 10 ⁶ | >5 | >2 | >1 | >1 |
| Operating frequency | Operations/h | | 6000 | 6000 | 2000 | 1 000 |
| Actuating force | N | | 5 | 5 | - | - |
| Protection level | | | IP65 | IP65 | IP65 | IP65 |
| Climatic protection | | | Damp heat, constant, according to IEC60068-2-78 Damp heat, cycled, according to IEC 60068-2-30 | | | |
| Ambient temperature | | | | | | |
| | Open | | -25/60 | -25/60 | -25/60 | -25/60 |
| | Closed | | -25/40 | -25/40 | -25/40 | -25/40 |
| Mounting position | | | As required | | | |
| Mechanical shock resistance, Shock duration 11ms | g | | >30 | >30 | >30 | >30 |
| Note: | | | 1) Technical data applicable only for ☒ up to 1.2W | | | |

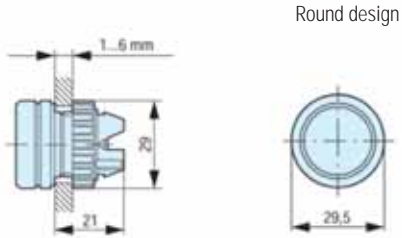
| Unit | | | Indicating light | Illuminated operator, self locking ²⁾ | Key release mushroom head operator | Emergency stop switch |
|---|--------------|-------------------|--|---|---------------------------------------|--------------------------|
| Standards | | | IEC/EN 60947, VDE 0660 | | | |
| Mechanical life | Operations | x 10 ⁶ | >3 | >3 ³⁾ | >1 | >1 |
| Operating frequency | Operations/h | | - | 6000 | 100 | 600 |
| Actuating force | N | | 5 | 5 | 7 | 50 |
| Protection level | | | IP65 | IP65 | IP65 | IP65 |
| Climatic protection | | | Damp heat, constant, according to IEC60068-2-78 Damp heat, cycled, according to IEC 60068-2-30 | | | |
| Ambient temperature | | | | | | |
| | Open | | -25/60 | -25/60 | -25/60 | -25/60 |
| | Closed | | -25/40 | -25/40 | -25/40 | -25/40 |
| Mounting position | | | As required | | | |
| Mechanical shock resistance, Shock duration 11ms | g | | - | >30 | >30 | >30 |
| Note: | | | 2) Technical data applicable only for ☒ up to 1.2W 3) A22-RLTR mechanical life: 0.3X10 ⁶ | | | |

Pushbutton and Indicating Light A22

Technical data

| | | Unit | Contact block | Lamp socket block |
|---------------------------------------|--------------|-------------------|---|-------------------|
| Overview | | | | |
| Standards | | | IEC/EN 60947, VDE 0660 | |
| Mechanical life | Operations | x 10 ⁶ | >10 | - |
| Operating frequency | Operations/h | | 6000 | - |
| Actuating force | | N | 5 | - |
| | | | A22-EC11: 7.3 | |
| | | | A22-EC20: 9 | |
| | | | A22-EC02: 5.5 | |
| Protection level | | | IP20 | IP20 |
| Climatic protection | | | Damp heat, constant, according to IEC60068-2-78 | |
| | | | Damp heat, cycled, according to IEC 60068-2-30 | |
| Ambient temperature | | | | |
| Open | | | -25/60 | -25/60 |
| Closed | | | -25/40 | -25/40 |
| Mounting position | | | As required | As required |
| Shock duration 11ms | | g | >30 | >30 |
| <u>Wiring cross section</u> | | | | |
| Single conductor | | | | |
| Stranded cord | | | 0.75-2.5 | 0.75-2.5 |
| Contact | | | 0.5-1.5 | 0.5-1.5 |
| Rated impulse withstand voltage | | | | |
| Rated insulation voltage | U | VAC | 6000 | 4000 |
| Overvoltage category/pollution degree | U | V | 500 | 250 |
| Control circuit reliability | | | III/3 | III/3 |
| At 5V DC/1 mA | | | | |
| At 24V DC/5 Ma | | H _F | <5x10 ⁻⁶ 5x10 ⁶ operations, <1 fault | |
| | | H _F | <10 ⁻⁷ 10 ⁷ operations, <1 fault | |
| Max. short-circuit protective device | | | | |
| Fuseless | | TYPE | PKZMO-10/FAZ-B6 | - |
| Fuse | gG/gL | A | 10 | - |
| Switching capacity | | | | |
| Rated operational current | | | | |
| AC-15 | | | | |
| 115V | I | A | 6 | - |
| 230V | I | A | 6 | - |
| 400 V | I | A | 4 | - |
| 500 V | I | A | 2 | - |
| DC-13 | | | | |
| 24 V | I | A | 3 | - |
| 60V | I | A | 3 | - |
| 110V | I | A | 0.8 | - |
| 220V | I | A | 0.3 | - |
| Electrical lifespan | | | | |
| AC-15 | | | | |
| 230 V/0.5 A | Operations | x 10 ⁶ | 1.6 | - |
| 230 V/1.0 A | Operations | x 10 ⁶ | 1 | - |
| 230 V/3.0 A | Operations | x 10 ⁶ | 0.7 | - |
| DC-13 | | | | |
| 12 V/2.8 A | Operations | x 10 ⁶ | 1.2 | - |

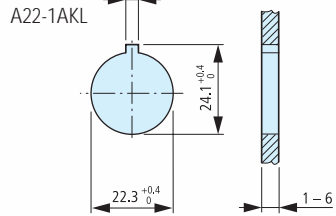
Pushbutton and indicating light



Round design

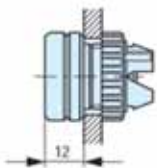
Cutout dimensions

Emergency stop button plate

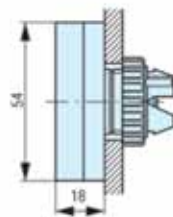


Pushbutton

A22-RD-...

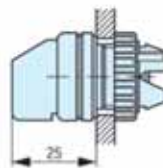


A22-ODDL-...



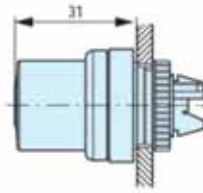
Selector switch

A22-RWK-...



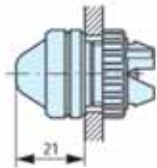
Key release switch

A22-RS-...

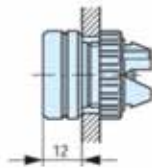


Indicating light

A22-RL-...

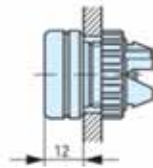


A22-RLF-...



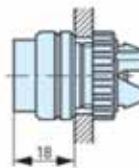
Illuminated operator

A22-RLT-...



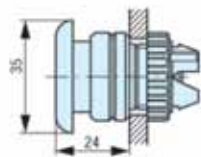
A22-RLTR-...

A22-RLTH-...

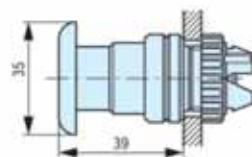


Key release mushroom head operator

A22-RP-...

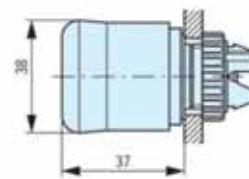


A22-RPSR-...

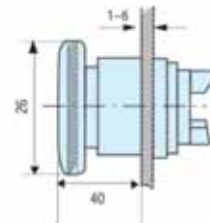


Emergency stop switch

A22-RPV



A22-E-STOP HEADER



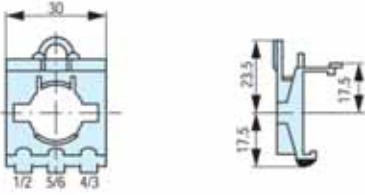
Pushbutton and Indicating Light A22

Dimensions

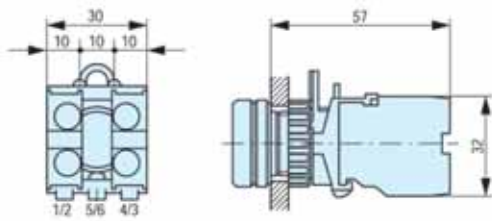
Front fixing (Type: flush mounting)

Mounting adapter

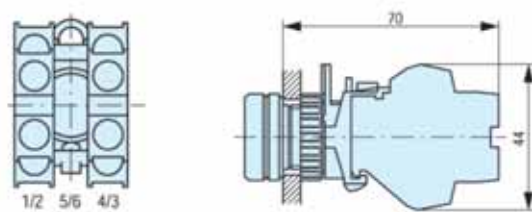
A22-BE3



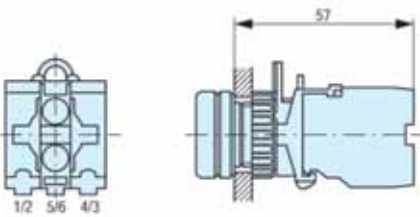
Pushbutton with A22-EK...



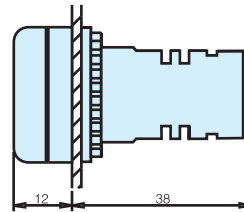
Pushbutton with A22-EC...



Indicating light/illuminated operator



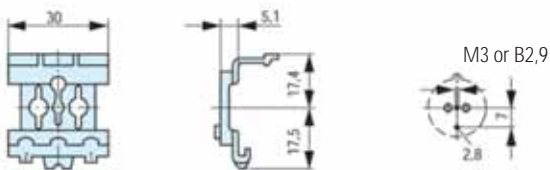
Compact design indicating light A22-LCLED



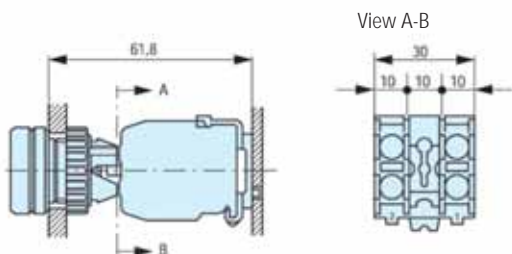
Rear fixing (Type: surface/rear mounting)

Mounting adapter

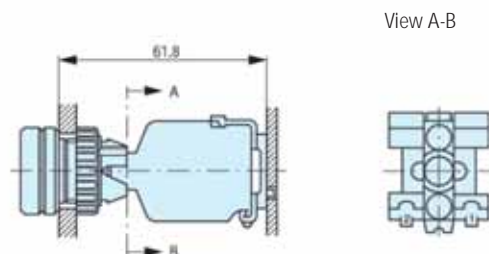
A22-BE3C



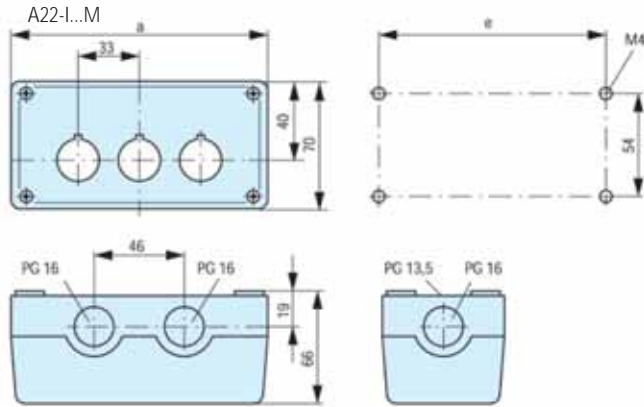
Pushbutton



Indicating light/illuminated operator



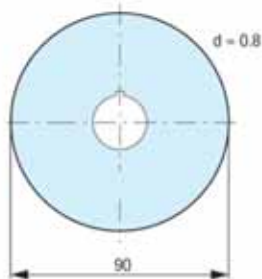
Rear fixing (surface mounting) Surface mounting pushbutton enclosure



| Type No | Mounting locations | | | Knockouts |
|----------------|--------------------|-----|-----|-----------------------|
| | Number | a | e | |
| A22-I (GE) 1 M | 1 | 72 | 54 | 3 x PG 16 1 x PG 13,5 |
| A22-I 2M | 2 | 120 | 100 | 3 x PG 16 2 x PG 13,5 |
| A22-I 3M | 3 | 153 | 133 | 4 x PG 16 2 x PG 13,5 |
| A22-I 4M | 4 | 186 | 166 | 4 x PG 16 2 x PG 13,5 |
| A22-I 5M | 5 | 219 | 200 | 4 x PG 16 2 x PG 13,5 |

Emergency stop button plate

A22-1AKL



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Powering Business Worldwide

Modular Units

Push-button actuators, IP 65



| Button plate | Actuator flush, spring return |
|--------------|-------------------------------|
| | A22-RD-11 |
| | A22-RD-10 |
| Without | A22-RD-X |

Mushroom actuators, IP 65



| Button plate | Mushroom actuator, spring return |
|--------------|----------------------------------|
| | A22-RP-GN11 |
| | A22-RP-RT10 |

Indicator light lens assemblies, IP 65



| Lens | Flush | Direct |
|------|------------|---------------------------------|
| | A22-RLF-WS | A22-LCLED24-W A22-LCLED220-W |
| | A22-RLF-GN | A22-LCLED24-G A22-LCLED220-G |
| | A22-RLF-RT | A22-LCLED24-R A22-LCLED220-R |
| | A22-RLF-GE | A22-LCLED24-Y A22-LCLED220-Y |
| | A22-RLF-BL | A22-LCLED24-B A22-LCLED220-B |

Emergency stop actuators, IP 65



| Function | Mushroom actuator, spring return |
|-----------------|----------------------------------|
| Pull to Release | A22-RPV |

Illuminated Push-button actuators, IP 65



| Button plate | Double actuator with indicator lens |
|--------------|-------------------------------------|
| | A22-QDDL-11/10 |

Illuminated Push-button actuators, IP 65



| Button plate | Actuator flush, spring return | Actuator flush, stay put | Actuator extended, spring return |
|--------------|-------------------------------|--------------------------|----------------------------------|
| | A22-RLT-WS11 | - | A22-RLTH-WS11 |
| | A22-RLT-WS | A22-RLTR-WS | A22-RLTH-WS |
| | A22-RLT-GN | A22-RLTR-GN | A22-RLTH-GN |
| | A22-RLT-RT | A22-RLTR-RT | A22-RLTH-RT |
| | A22-RLT-GE | A22-RLTR-GE | A22-RLTH-GE |

Selector switch actuators, IP 65

Key-operated actuators, IP 65



| Function | Thumb-grip, 2 positions | KMS1 lock mechanism, 2 positions |
|----------|-------------------------|----------------------------------|
| 90° | A22-RWK1V | |
| 60° | A22-RWK1R | A22M-RS |
| 45° | A22-RWK1 | |
| | 3 positions | 3 positions |
| 60° | A22-RWK3R | A22M-RS3 |
| 45° | A22-RWK3 | A22-RS3-KMS1-A4 |

Stay-put Spring-Return

Modular Units

Mushroom actuators, IP 65



Mushroom actuator, spring return

A22M-RPSR

BA9s Filament Bulbs



| BA9s Filament Bulbs | Type |
|---------------------|-----------|
| 2W / 24V | A22-GL24 |
| 2.4W / 130V | A22-GL130 |

Contact Elements, IP 20



| Function | Flushing mounting | Surface/rear mounting |
|----------|-------------------|-----------------------|
| | A22-EK10 | A22-EK10C |
| | A22-EK01 | A22-EK01C |
| | A22-EC11 | |
| | A22-EC20 | |
| | A22-EC02 | |

Adapters



| Flushing mounting | Surface/rear mounting |
|-------------------|-----------------------|
| A22-BE6 | A22-BE3C |

Lamp Sockets, IP 20



| Lamp Voltage | Flushing mounting | Surface/rear mounting |
|--------------|-------------------|-----------------------|
| Max. 2W | A22-EF | A22-EFC |
| Max. 2.4W | A22-EFR | A22-EFRC |

Complete Assembly Units

Push Button, IP 65



| Button Plate | Function | Flush |
|--------------|----------|---------------|
| | | A22-RD-11/K10 |
| | | A22-RD-10/K01 |



Selector Switch Thumb-Grip Handle, IP 65



| No. Positions | Function | Flush |
|---------------|----------|---------------|
| 2 | | A22-RWK1V/K10 |
| 3 | | A22-RWK3R/K20 |



X-Command
A22 CONTROL CIRCUIT DEVICES

Reliable and Precise Command and Signalling



Complete Assembly Units

Illuminated Push Buttons, IP 65



| Function | Flush |
|---|--|
| Direct LED | A22-RLT-xx/K**/F/LED-x |
| Direct 24V filament 220-240V resistor stepdown to 130V filament | A22-RLT-xx/K**/F/GL24 A22-RLT-xx/K**/FR/GL130 |

Indicator Light, IP 65



| Function | Flush |
|---|--|
| Direct LED | A22-RLF-xx/F/LED-x |
| Direct 24V filament | A22-RLF-xx/F/GL24 |
| 220-240V resistor stepdown to 130V filament | A22-RLF-xx/FR/G130 A22-RLK-xx/K**/F/GL130 |
| 230V resistor step-down to 6V LED | A22-RLF-xx/FR(230-6V)/LED-x(6V) |

E-stop Actuator, IP 65



| Function | Flush |
|---------------------|----------------|
| Turn to release | A22-E.STOP/K01 |

Complete Units for surface mounting, IP 65



| Button Plate | Function | Push button actuators, Flush |
|--------------|----------|------------------------------|
| | | A22-RD-11/KC/I |
| | | A22-RD-10/KC/I |

Key Operated, IP 65



| No. Positions | Function | Flush |
|---------------|----------|-------------|
| 2 | | A22-RS/K10 |
| 3 | | A22-RS3/K20 |

Indicator Light - Transformer Stepdown, IP 65



| Function | Flush |
|---|---------------------------|
| 230V transformer stepdown to 6V, Filament | A22-BFT230/6V-XX |
| 415V transformer stepdown to 6V, Filament | A22-BFT230/6V-XX |
| 230V transformer stepdown to 6V, LED | A22-BFT(230/6V)-LED-X(6V) |

E-stop Actuator, IP 65



| Function | Flush |
|---------------------|-------------|
| Pull to release | A22-RPV/K01 |

Key:

| Actuator Colour Symbol | xx | Contact Symbol | ** |
|------------------------|-----|----------------|----|
| White | WS | 1M | 10 |
| Green | GN | 1B | 01 |
| Red | RT | | |
| Yellow | GE | | |
| Blue | BL* | | |

LED Colour Symbol

| LED Colour Symbol | x |
|-------------------|---|
| White | W |
| Green | G |
| Red | R |
| Yellow | Y |
| Blue | B |

*only A22-RLF-BL available

Accessories

BA 9s single chip LED For 18-30 V DC / AC voltage
(protected against polarity reversal)

| Colour / Symbol | Type |
|-----------------|-----------|
| ○ | A22-LED-W |
| ● | A22-LED-G |
| ● | A22-LED-R |
| ● | A22-LED-Y |
| ● | A22-LED-B |

| Push-button plates | Type |
|--------------------|---------|
| ● | A22-01T |
| ○ | A22-02T |
| ● | A22-03T |
| ● | A22-04T |
| ● | A22-05T |
| ● | A22-06T |
| ○ | A22-10T |
| Ⅰ | A22-11T |
| Ⅱ | A22-12T |
| Ⅲ | A22-13T |
| Ⅳ | A22-14T |
| ○ | A22-19T |
| ⓪ | A22-20T |
| + | A22-37T |
| - | A22-38T |
| ⤴ | A22-32T |

Enclosure, IP 65



| Colour | Enclosure, IP 65 |
|--------------|------------------|
| Yellow/Black | A22-IGE 1M |

Enclosure, IP 65, Gray / Black



| | Enclosures |
|---------------|------------|
| (1 location) | A22-I1M |
| (2 locations) | A22-I2M |
| (3 locations) | A22-I3M |
| (4 locations) | A22-I4M |
| (5 locations) | A22-I5M |

Complete Legend Plates

Label mount, black, with aluminium coloured insert plate



| Text black | |
|-------------|-------------|
| → | A22-RAS-32 |
| ← | A22-RAS-33 |
| 0 I | A22-RAS-90 |
| I 0 II | A22-RAS-93 |
| 0 I | A22-RAS-98 |
| STOP | A22-RAS-110 |
| START | A22-RAS-111 |
| MAN./AUTO | A22-RAS-395 |
| MAN. 0 AUTO | A22-RAS-397 |

| Colour | | |
|---------------------------------|-----------|-----------|
| Insert plates (can be engraved) | Aluminium | A22-XA |
| Label mount | Black | A22-RAS-X |

Emergency Stop Labels



| Text | |
|----------------|--------------|
| Blank | A22-1 AK |
| Emergency-Stop | A22-1 AK-299 |

Telescopic clip



Telescopic clip A22-TC-RMQ

Set of coding adapters for Selector switch actuators consist of two coding adapters A22-SP-RMQ

| Function | Symbol | Colour |
|---------------|--------|--------|
| Stay-put | ↙ | ● |
| Spring-Return | ↘ | ● |

A22 Control Circuit Devices Specifications

| | | | | | | |
|--------------------------------------|------------------------------------|--------------------------------|-----------------|---|------------------|--|
| | | Contact elements | Indicator Light | Push-button actuators Mushroom actuators | Double actuators | Emergency-stop actuators Illuminated push-button actuators Selector Switch |
| General | | | | | | |
| Standards | | IEC/EN 60 947, VDE 0660, CCC | | | | |
| Ambient Temperature | °C | -25 / +60 | | | | |
| Mechanical Lifespan | Operations x 10 ⁶ | 10 | - | 5 | 0.2 | 0.1 |
| Degrees of protection | | IP20 | IP20 | IP65 | IP65 | IP65 |
| Rated insulation voltage Ui | V | 500 | 250 | - | - | - |
| Contact | | | | | | |
| Max. short-circuit protection device | | | | | | |
| Fuseless | Type | PKZM0-10 or PLS6-B6/1-AS | | | | |
| Fuse | A gL | 10 | | | | |
| Switching Capacity | | | | | | |
| Rated operational current | | | | | | |
| AC-15 | 115 V A 230V A 400V A | 6 6 4 | | | | |
| DC-13 | 40V A 60V A 110V A 220V A | 6 3 0.8 0.3 | | | | |

In 2008, Eaton acquired the Moeller Group, strengthening its global IEC control portfolio. Today that broad offering of IEC control components is available globally under the Eaton brand.

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