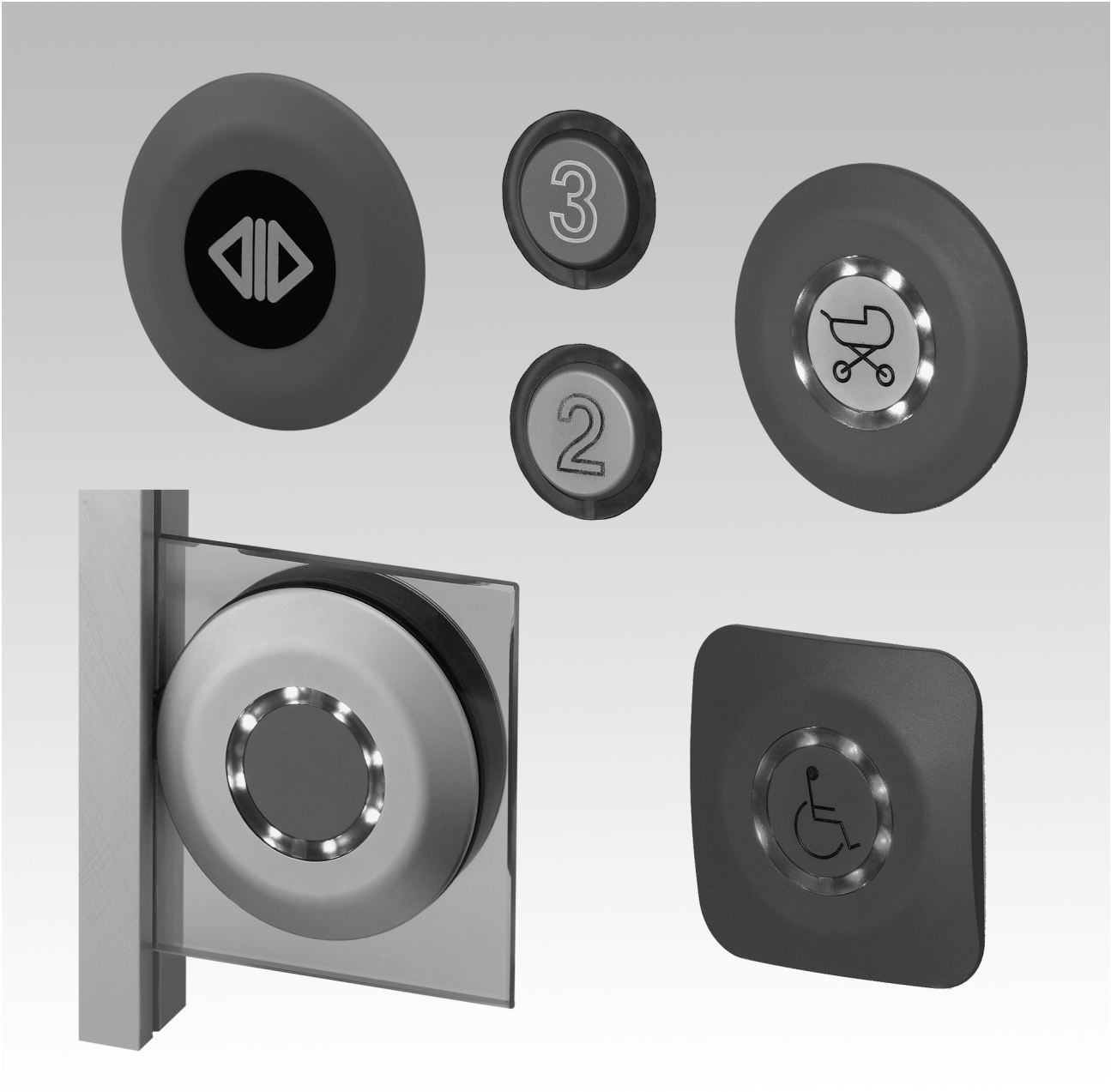




EAO Product Information

Series 56



Index

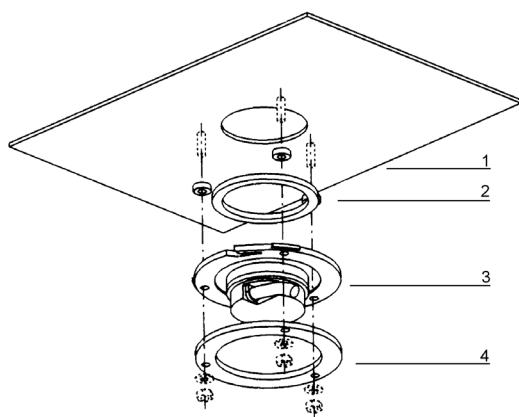
Series 56

| | | |
|------------------------|--------------------------------------|-----------------|
| | Description | page 399 |
| | Product Assembly | page 400 |
| | Mounting Instruction | page 402 |
| | Product Range | |
| | - pushbuttons for standard mounting | page 403 |
| | - pushbuttons | page 406 |
| | - pushbuttons for flush mounting | page 410 |
| | - accessories / spare parts | page 413 |
| | Technical Data | page 415 |
| | Technical Drawing / Dimension | page 416 |
| Circuit Drawing | page 421 | |

The series 56 is designed as a door pushbutton for public transport applications. It has an excellent tactile feedback- a mechanical switch! The pushbutton consists of a switching unit with LED illumination, lens and connection cable as well as a bezel. It can be mounted from the front of the panel using fixing screws which are covered by a raised bezel. The flush mounted version is fitted from the rear of the panel and does not use a bezel. The latest addition to the Series 56 range is an indicator. This product can be supplied either with full illumination or solely the illumination of an hidden text/symbol.

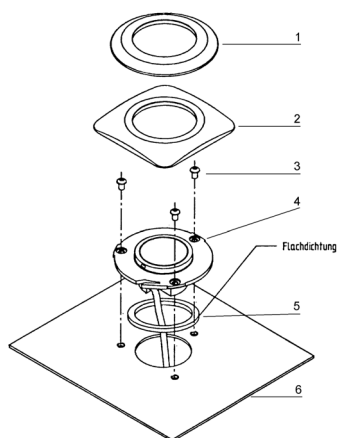
*All dimensions in mm.
We reserve the right to modify technical data.*

front panel mounting single pushbutton for flush mounting



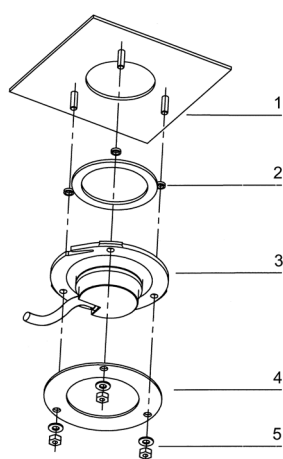
- 1 front panel
- 2 sealing und spacer
- 3 switching unit complete
- 4 nut, washer, reinforcement ring
- 5 (see mounting set 56-991 S. 56.17)

front panel mounting single pushbutton standard mounting



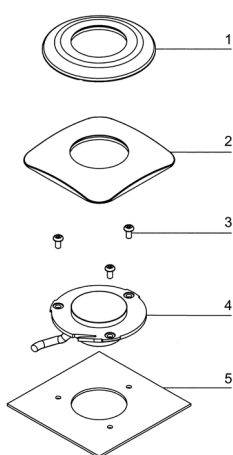
- 1 front bezel round
- 2 bezel square
- 3 screw M4 x 8
- 4 switching unit complete
- 5 sealing
- 6 front panel

front panel mounting indicator for flush mounting



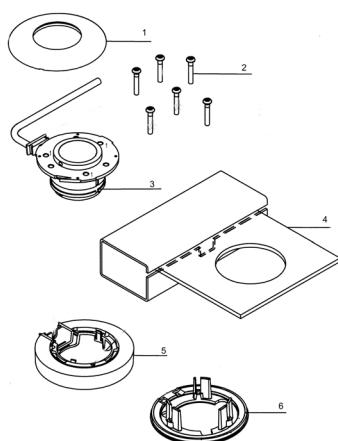
- 1 Frontplate
- 2 Sealing ring (-ring or flat ring) and spacers
- 3 Indicator unit complete
- 4 Reinforcement ring
- 5 Nuts and washer

front panel mounting indicator for raised mounting



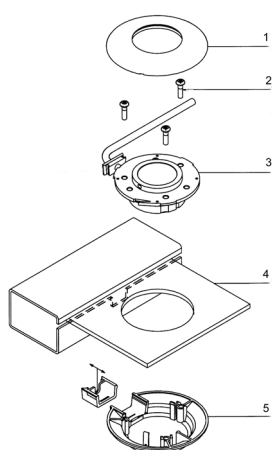
- 1 Bezel circular
- 2 Bezel square
- 3 Screws B4 x 8
- 4 Indicator unit complete
- 5 Frontplate

double pushbutton for glass mounting



- 1 Bezel round
- 2 Screw with O-ring, Hexagon 2.5 mm Torque max. 60 Ncm
- 3 Switching unit complete
- 4 Glass
- 5 Flange
- 6 Cover

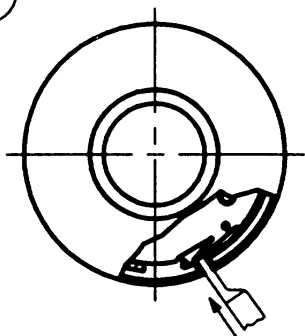
single pushbutton for glass mounting



- 1 Bezel round
- 2 Screw with O-ring, Hexagon 2.5 mm Torque max. 60 Ncm
- 3 Switching unit complete
- 4 Glass
- 5 Cover

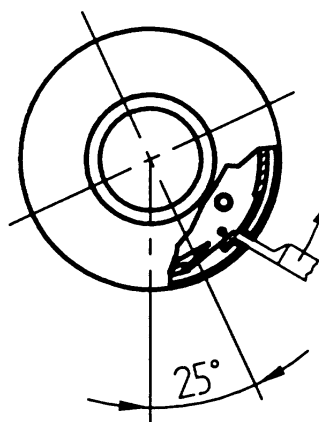
Single full face pushbutton and indicator for front panel mounting/Double full face pushbutton for glass mounting

1



Push Dismanteling
tool 56 - 998 into

2



turn 25°
anti-clockwise

indicator for front panel mounting standard mounting



- front bezel round page 413
- front bezel square page 413

| | Voltage illumination no. | Illumination LED | marking | part no. | circuit drawing | technical drawing | mounting dimensions | |
|--|-----------------------------|------------------|---------|-------------------|-----------------|-------------------|---------------------|-------|
| indicator for front panel mounting standard mounting | 24 VDC | blue | symbol | 56-8213.90 | 1 | 1 | 1 | 0,045 |
| | | | 1 line | 56-8213.91 | 1 | 1 | 1 | 0,045 |
| | | | 2 lines | 56-8213.92 | 1 | 1 | 1 | 0,045 |
| | | | 3 lines | 56-8213.93 | 1 | 1 | 1 | 0,045 |
| | | | without | 56-8213.8 | 1 | 1 | 1 | 0,045 |
| | | yellow | symbol | 56-6213.90 | 1 | 1 | 1 | 0,045 |
| | | | 1 line | 56-6213.91 | 1 | 1 | 1 | 0,045 |
| | | | 2 lines | 56-6213.92 | 1 | 1 | 1 | 0,045 |
| | | | 3 lines | 56-6213.93 | 1 | 1 | 1 | 0,045 |
| | | | without | 56-6213.8 | 1 | 1 | 1 | 0,045 |
| | | green | symbol | 56-2213.90 | 1 | 1 | 1 | 0,045 |
| | | | 1 line | 56-2213.91 | 1 | 1 | 1 | 0,045 |
| | | | 2 lines | 56-2213.92 | 1 | 1 | 1 | 0,045 |
| | | | 3 lines | 56-2213.93 | 1 | 1 | 1 | 0,045 |
| | | | without | 56-2213.8 | 1 | 1 | 1 | 0,045 |
| | | red | symbol | 56-3213.90 | 1 | 1 | 1 | 0,045 |
| | | | 1 line | 56-3213.91 | 1 | 1 | 1 | 0,045 |
| | | | 2 lines | 56-3213.92 | 1 | 1 | 1 | 0,045 |
| | | | 3 lines | 56-3213.93 | 1 | 1 | 1 | 0,045 |
| | | | without | 56-3213.8 | 1 | 1 | 1 | 0,045 |
| | | white | without | 56-9213.8 | 1 | 1 | 1 | 0,045 |

Standard version:
 Standard lettering: Arial; Other lettering on request
 Cable lenght 0.2 m; AMP plug.in housing
 Other versions on request (Standard AMP 2,8 x 0,8mm)
 circuit drawings from page 421, technical drawings from page 416, mounting dimensions from page 419

single pushbutton for front panel mounting standard mounting

lens can be marked

CAUTION: New part no, cable length new 200 mm



🛒 front bezel round page 413

🛒 front bezel square page 413

| | operation voltage | illumination | mounting of lens | material of lens | colour of lens | part no. | circuit drawing | technical drawing | mounting dimensions | |
|---|-------------------|---------------|------------------|--------------------|-------------------|---------------------|-----------------|-------------------|---------------------|-------|
| single push-button for front panel mounting standard mounting | 24 VDC | 8 green | flush | aluminium anodized | natural | 56-120.11.200.13.05 | 3 | 2 | 2 | 0,100 |
| | | | | plastic | blue (RAL 5017) | 56-110.11.200.13.04 | 3 | 2 | 2 | 0,100 |
| | | | | | yellow (RAL 1023) | 56-110.11.200.13.02 | 3 | 2 | 2 | 0,100 |
| | | | | | green (RAL 6024) | 56-110.11.200.13.03 | 3 | 2 | 2 | 0,100 |
| | | | | | red (RAL 3020) | 56-110.11.200.13.01 | 3 | 2 | 2 | 0,100 |
| | | | raised | aluminium anodized | blue | 56-130.11.200.13.04 | 3 | 2 | 2 | 0,100 |
| | | | | | yellow | 56-130.11.200.13.02 | 3 | 2 | 2 | 0,100 |
| | | | | | green | 56-130.11.200.13.03 | 3 | 2 | 2 | 0,100 |
| | | | | | natural | 56-130.11.200.13.05 | 3 | 2 | 2 | 0,100 |
| | | | | | red | 56-130.11.200.13.11 | 3 | 2 | 2 | 0,100 |
| | | 8 green/2 red | flush | aluminium anodized | natural | 56-120.11.200.11.05 | 2 | 2 | 2 | 0,100 |
| | | | | plastic | blue (RAL 5017) | 56-110.11.200.11.04 | 2 | 2 | 2 | 0,100 |
| | | | | | yellow (RAL 1023) | 56-110.11.200.11.02 | 2 | 2 | 2 | 0,100 |
| | | | | | green (RAL 6024) | 56-110.11.200.11.03 | 2 | 2 | 2 | 0,100 |
| | | | | | red (RAL 3020) | 56-110.11.200.11.01 | 2 | 2 | 2 | 0,100 |
| | | | raised | aluminium anodized | blue | 56-130.11.200.11.04 | 2 | 2 | 2 | 0,100 |
| | | | | | yellow | 56-130.11.200.11.02 | 2 | 2 | 2 | 0,100 |
| | | | | | green | 56-130.11.200.11.03 | 2 | 2 | 2 | 0,100 |
| | | | | | natural | 56-130.11.200.11.05 | 2 | 2 | 2 | 0,100 |
| | | | | | red | 56-130.11.200.11.01 | 2 | 2 | 2 | 0,100 |

Continued on next page

| | operation voltage | illumination | mounting of lens | material of lens | colour of lens | part no. | circuit drawing | technical drawing | mounting dimensions | |
|--|----------------------|---------------|------------------|--------------------|-------------------|----------------------------|-----------------|-------------------|---------------------|-------|
| single push-button for front panel mounting standard mounting | 24 VDC | 8 red | flush | aluminium anodized | natural | 56-120.11.200.14.05 | 3 | 2 | 2 | 0,100 |
| | | | | plastic | blue (RAL 5017) | 56-110.11.200.14.04 | 3 | 2 | 2 | 0,100 |
| | | | | | yellow (RAL 1023) | 56-110.11.200.14.02 | 3 | 2 | 2 | 0,100 |
| | | | | | green (RAL 6024) | 56-110.11.200.14.03 | 3 | 2 | 2 | 0,100 |
| | | | | | red (RAL 3020) | 56-110.11.200.14.01 | 3 | 2 | 2 | 0,100 |
| | | | raised | aluminium anodized | blue | 56-130.11.200.14.04 | 3 | 2 | 2 | 0,100 |
| | | | | | yellow | 56-130.11.200.14.02 | 3 | 2 | 2 | 0,100 |
| | | | | | green | 56-130.11.200.14.03 | 3 | 2 | 2 | 0,100 |
| | | | | | natural | 56-130.11.200.14.05 | 3 | 2 | 2 | 0,100 |
| | | | | | red | 56-130.11.200.14.11 | 3 | 2 | 2 | 0,100 |
| | | 8 red/2 green | flush | aluminium anodized | natural | 56-120.11.200.12.05 | 2 | 2 | 2 | 0,100 |
| | | | | plastic | blue (RAL 5017) | 56-110.11.200.12.04 | 2 | 2 | 2 | 0,100 |
| | | | | | yellow (RAL 1023) | 56-110.11.200.12.02 | 2 | 2 | 2 | 0,100 |
| | | | | | green (RAL 6024) | 56-110.11.200.12.03 | 2 | 2 | 2 | 0,100 |
| | | | | | red (RAL 3020) | 56-110.11.200.12.11 | 2 | 2 | 2 | 0,100 |
| | | | raised | aluminium anodized | blue | 56-130.11.200.12.04 | 2 | 2 | 2 | 0,100 |
| | | | | | yellow | 56-130.11.200.12.02 | 2 | 2 | 2 | 0,100 |
| | | | | | green | 56-130.11.200.12.03 | 2 | 2 | 2 | 0,100 |
| | | | | | natural | 56-130.11.200.12.05 | 2 | 2 | 2 | 0,100 |
| | | | | | red | 56-130.11.200.12.01 | 2 | 2 | 2 | 0,100 |
| | without illumination | without | flush | aluminium anodized | natural | 56-020.04.200.00.05 | 4 | 2 | 2 | 0,100 |
| | | | | plastic | blue (RAL 5017) | 56-010.04.200.00.04 | 4 | 2 | 2 | 0,100 |
| | | | | | yellow (RAL 1023) | 56-010.04.200.00.02 | 4 | 2 | 2 | 0,100 |
| | | | | | green (RAL 6024) | 56-010.04.200.00.03 | 4 | 2 | 2 | 0,100 |
| | | | | | red (RAL 3020) | 56-010.04.200.00.01 | 4 | 2 | 2 | 0,100 |
| | | | raised | aluminium anodized | blue | 56-030.04.200.00.04 | 4 | 2 | 2 | 0,100 |
| | | | | | yellow | 56-030.04.200.00.02 | 4 | 2 | 2 | 0,100 |
| | | | | | green | 56-030.04.200.00.03 | 4 | 2 | 2 | 0,100 |
| | | | | | natural | 56-030.04.200.00.05 | 4 | 2 | 2 | 0,100 |
| | | | | | red | 56-030.04.200.00.01 | 4 | 2 | 2 | 0,100 |

Standard version:

cable length 200 mm;

Additional options on request:

special cable length; special plug-in housing;

special colour of lens; voltage illumination: 36/72/110 VDC

various symbols

circuit drawings from page 421, technical drawings from page 416, mounting dimensions from page 419


single pushbutton for glass mounting



front bezel round page 413

| | operation voltage | illumination | mounting of lens | material of lens | colour of lens | part no. | circuit drawing | technical drawing | mounting dimensions | |
|---------------------------------------|-------------------|---------------|------------------|--------------------|-------------------|----------------------|-----------------|-------------------|---------------------|-------|
| single push-button for glass mounting | 24 VDC | 8 green | flush | aluminium anodized | natural | 56-2213.2600G | 3 | 3 | 3 | 0,045 |
| | | | | plastic | blue (RAL 5017) | 56-2213.1600G | 3 | 3 | 3 | 0,045 |
| | | | | | yellow (RAL 1023) | 56-2213.1400G | 3 | 3 | 3 | 0,045 |
| | | | | | green (RAL 6024) | 56-2213.1500G | 3 | 3 | 3 | 0,045 |
| | | | | | red (RAL 3020) | 56-2213.1200G | 3 | 3 | 3 | 0,045 |
| | | | raised | aluminium anodized | blue | 56-2213.4600G | 3 | 3 | 3 | 0,045 |
| | | | | | yellow | 56-2213.4400G | 3 | 3 | 3 | 0,045 |
| | | | | | green | 56-2213.4500G | 3 | 3 | 3 | 0,045 |
| | | | | | natural | 56-2213.4800G | 3 | 3 | 3 | 0,045 |
| | | | | | red | 56-2213.4200G | 3 | 3 | 3 | 0,045 |
| | | 8 green/2 red | flush | aluminium anodized | natural | 56-1213.2600G | 2 | 3 | 3 | 0,045 |
| | | | | plastic | blue (RAL 5017) | 56-1213.1600G | 2 | 3 | 3 | 0,045 |
| | | | | | yellow (RAL 1023) | 56-1213.1400G | 2 | 3 | 3 | 0,045 |
| | | | | | green (RAL 6024) | 56-1213.1500G | 2 | 3 | 3 | 0,045 |
| | | | | | red (RAL 3020) | 56-1213.1200G | 2 | 3 | 3 | 0,045 |
| | | | raised | aluminium anodized | blue | 56-1213.4600G | 2 | 3 | 3 | 0,045 |
| | | | | | yellow | 56-1213.4400G | 2 | 3 | 3 | 0,045 |
| | | | | | green | 56-1213.4500G | 2 | 3 | 3 | 0,045 |
| | | | | | natural | 56-1213.4800G | 2 | 3 | 3 | 0,045 |
| | | | | | red | 56-1213.4200G | 2 | 3 | 3 | 0,045 |

Continued on next page

| | operation voltage | illumination | mounting of lens | material of lens | colour of lens | part no. | circuit drawing | technical drawing | mounting dimensions |  |
|---------------------------------------|----------------------|---------------|------------------|--------------------|-------------------|----------------------|-----------------|-------------------|---------------------|---|
| single push-button for glass mounting | 24 VDC | 8 red | flush | aluminium anodized | natural | 56-3213.2600G | 3 | 3 | 3 | 0,045 |
| | | | | plastic | blue (RAL 5017) | 56-3213.1600G | 3 | 3 | 3 | 0,045 |
| | | | | | yellow (RAL 1023) | 56-3213.1400G | 3 | 3 | 3 | 0,045 |
| | | | | | green (RAL 6024) | 56-3213.1500G | 3 | 3 | 3 | 0,045 |
| | | | | | red (RAL 3020) | 56-3213.1200G | 3 | 3 | 3 | 0,045 |
| | | | raised | aluminium anodized | blue | 56-3213.4600G | 3 | 3 | 3 | 0,045 |
| | | | | | yellow | 56-3213.4400G | 3 | 3 | 3 | 0,045 |
| | | | | | green | 56-3213.4500G | 3 | 3 | 3 | 0,045 |
| | | | | | natural | 56-3213.4800G | 3 | 3 | 3 | 0,045 |
| | | | | | red | 56-3213.4200G | 3 | 3 | 3 | 0,045 |
| | | 8 red/2 green | flush | aluminium anodized | natural | 56-4213.2600G | 2 | 3 | 3 | 0,045 |
| | | | | plastic | blue (RAL 5017) | 56-4213.1600G | 2 | 3 | 3 | 0,045 |
| | | | | | yellow (RAL 1023) | 56-4213.1400G | 2 | 3 | 3 | 0,045 |
| | | | | | green (RAL 6024) | 56-4213.1500G | 2 | 3 | 3 | 0,045 |
| | | | | | red (RAL 3020) | 56-4213.1200G | 2 | 3 | 3 | 0,045 |
| | | | raised | aluminium anodized | blue | 56-4213.4600G | 2 | 3 | 3 | 0,045 |
| | | | | | yellow | 56-4213.4400G | 2 | 3 | 3 | 0,045 |
| | | | | | green | 56-4213.4500G | 2 | 3 | 3 | 0,045 |
| | | | | | natural | 56-4213.4800G | 2 | 3 | 3 | 0,045 |
| | | | | | red | 56-4213.4200G | 2 | 3 | 3 | 0,045 |
| | without illumination | without | flush | aluminium anodized | natural | 56-5013.2600G | 4 | 3 | 3 | 0,045 |
| | | | | plastic | blue (RAL 5017) | 56-5013.1600G | 4 | 3 | 3 | 0,045 |
| | | | | | yellow (RAL 1023) | 56-5013.1400G | 4 | 3 | 3 | 0,045 |
| | | | | | green (RAL 6024) | 56-5013.1500G | 4 | 3 | 3 | 0,045 |
| | | | | | red (RAL 3020) | 56-5013.1200G | 4 | 3 | 3 | 0,045 |
| | | | raised | aluminium anodized | blue | 56-5013.4600G | 4 | 3 | 3 | 0,045 |
| | | | | | yellow | 56-5013.4400G | 4 | 3 | 3 | 0,045 |
| | | | | | green | 56-5013.4500G | 4 | 3 | 3 | 0,045 |
| | | | | | natural | 56-5013.4800G | 4 | 3 | 3 | 0,045 |
| | | | | | red | 56-5013.4200G | 4 | 3 | 3 | 0,045 |

Standard version:

cable length 200 mm;

Additional options on request:

special cable length; special plug-in housing;

special colour of lens; voltage illumination: 36/48/72/110 VDC

various symbols


circuit drawings from page 421, technical drawings from page 416, mounting dimensions from page 419

double pushbutton for glass mounting




🛒 front bezel round page 413

🛒 front bezel internal for double pushbutton page 413

| | operation voltage | illumination | mounting of lens | material of lens | colour of lens | part no. | circuit drawing | technical drawing | mounting dimensions |  |
|---------------------------------------|-------------------|-----------------|------------------|--------------------|-------------------|----------------|-----------------|-------------------|---------------------|---|
| double push-button for glass mounting | 24 VDC | 16 green | flush | aluminium anodized | natural | 56-2213.260026 | 3 | 4 | 4 | 0,175 |
| | | | | plastic | blue (RAL 5017) | 56-2213.160016 | 3 | 4 | 4 | 0,175 |
| | | | | | yellow (RAL 1023) | 56-2213.140014 | 3 | 4 | 4 | 0,175 |
| | | | | | green (RAL 6024) | 56-2213.150015 | 3 | 4 | 4 | 0,175 |
| | | | | | red (RAL 3020) | 56-2213.120012 | 3 | 4 | 4 | 0,175 |
| | | | raised | aluminium anodized | blue | 56-2213.460046 | 3 | 4 | 4 | 0,175 |
| | | | | | yellow | 56-2213.440044 | 3 | 4 | 4 | 0,175 |
| | | | | | green | 56-2213.450045 | 3 | 4 | 4 | 0,175 |
| | | | | | natural | 56-2213.480048 | 3 | 4 | 4 | 0,175 |
| | | | | | red | 56-2213.420042 | 3 | 4 | 4 | 0,175 |
| | | 16 green/ 4 red | flush | aluminium anodized | natural | 56-1213.260026 | 2 | 4 | 4 | 0,175 |
| | | | | plastic | blue (RAL 5017) | 56-1213.160016 | 2 | 4 | 4 | 0,175 |
| | | | | | yellow (RAL 1023) | 56-1213.140014 | 2 | 4 | 4 | 0,175 |
| | | | | | green (RAL 6024) | 56-1213.150015 | 2 | 4 | 4 | 0,175 |
| | | | | | red (RAL 3020) | 56-1213.120012 | 2 | 4 | 4 | 0,175 |
| | | | raised | aluminium anodized | blue | 56-1213.460046 | 2 | 4 | 4 | 0,175 |
| | | | | | yellow | 56-1213.440044 | 2 | 4 | 4 | 0,175 |
| | | | | | green | 56-1213.450045 | 2 | 4 | 4 | 0,175 |
| | | | | | natural | 56-1213.480048 | 2 | 4 | 4 | 0,175 |
| | | | | | red | 56-1213.420042 | 2 | 4 | 4 | 0,175 |

Continued on next page

| | operation voltage | illumination | mounting of lens | material of lens | colour of lens | part no. | circuit drawing | technical drawing | mounting dimensions |  |
|--|----------------------|----------------|------------------|--------------------|-------------------|-----------------------|-----------------|-------------------|---------------------|---|
| double push-button for glass mounting | 24 VDC | 16 red | flush | aluminium anodized | natural | 56-3213.260026 | 3 | 4 | 4 | 0,175 |
| | | | | plastic | blue (RAL 5017) | 56-3213.160016 | 3 | 4 | 4 | 0,175 |
| | | | | | yellow (RAL 1023) | 56-3213.140014 | 3 | 4 | 4 | 0,175 |
| | | | | | green (RAL 6024) | 56-3213.150015 | 3 | 4 | 4 | 0,175 |
| | | | | | red (RAL 3020) | 56-3213.120012 | 3 | 4 | 4 | 0,175 |
| | | | raised | aluminium anodized | blue | 56-3213.460046 | 3 | 4 | 4 | 0,175 |
| | | | | | yellow | 56-3213.440044 | 3 | 4 | 4 | 0,175 |
| | | | | | green | 56-3213.450045 | 3 | 4 | 4 | 0,175 |
| | | | | | natural | 56-3213.480048 | 3 | 4 | 4 | 0,175 |
| | | | | | red | 56-3213.420042 | 3 | 4 | 4 | 0,175 |
| | | 16 red/4 green | flush | aluminium anodized | natural | 56-4213.260026 | 2 | 4 | 4 | 0,175 |
| | | | | plastic | blue (RAL 5017) | 56-4213.160016 | 2 | 4 | 4 | 0,175 |
| | | | | | yellow (RAL 1023) | 56-4213.140014 | 2 | 4 | 4 | 0,175 |
| | | | | | green (RAL 6024) | 56-4213.150015 | 2 | 4 | 4 | 0,175 |
| | | | | | red (RAL 3020) | 56-4213.120012 | 2 | 4 | 4 | 0,175 |
| | | | raised | aluminium anodized | blue | 56-4213.460046 | 2 | 4 | 4 | 0,175 |
| | | | | | yellow | 56-4213.440044 | 2 | 4 | 4 | 0,175 |
| | | | | | green | 56-4213.450045 | 2 | 4 | 4 | 0,175 |
| | | | | | natural | 56-4213.480048 | 2 | 4 | 4 | 0,175 |
| | | | | | red | 56-4213.420042 | 2 | 4 | 4 | 0,175 |
| | without illumination | without | flush | aluminium anodized | natural | 56-5013.260026 | 4 | 4 | 4 | 0,175 |
| | | | | plastic | blue (RAL 5017) | 56-5013.160016 | 4 | 4 | 4 | 0,175 |
| | | | | | yellow (RAL 1023) | 56-5013.140014 | 4 | 4 | 4 | 0,175 |
| | | | | | green (RAL 6024) | 56-5013.150015 | 4 | 4 | 4 | 0,175 |
| | | | | | red (RAL 3020) | 56-5013.120012 | 4 | 4 | 4 | 0,175 |
| | | | raised | aluminium anodized | blue | 56-5013.460046 | 4 | 4 | 4 | 0,175 |
| | | | | | yellow | 56-5013.440044 | 4 | 4 | 4 | 0,175 |
| | | | | | green | 56-5013.450045 | 4 | 4 | 4 | 0,175 |
| | | | | | natural | 56-5013.480048 | 4 | 4 | 4 | 0,175 |
| | | | | | red | 56-5013.420042 | 4 | 4 | 4 | 0,175 |

Standard version:

cable length 200 mm;

Additional options on request:

special cable length; special plug-in housing;

special colour of lens; voltage illumination: 36/48/72/110 VDC

various symbols

circuit drawings from page 421, technical drawings from page 416, mounting dimensions from page 419

indicator for front panel mounting flush mounting



| | Voltage illumination no. | Illumination LED | marking | part no. | circuit drawing | technical drawing | mounting dimensions | |
|---|-----------------------------|------------------|---------|------------|-----------------|-------------------|---------------------|-------|
| indicator for front panel mounting flush mounting | 24 VDC | blue | symbol | 56-8213.90 | 1 | 5 | 5 | 0,045 |
| | | | 1 line | 56-8213.91 | 1 | 5 | 5 | 0,045 |
| | | | 2 lines | 56-8213.92 | 1 | 5 | 5 | 0,045 |
| | | | 3 lines | 56-8213.93 | 1 | 5 | 5 | 0,045 |
| | | | without | 56-8213.8 | 1 | 5 | 5 | 0,045 |
| | | yellow | symbol | 56-6213.90 | 1 | 5 | 5 | 0,045 |
| | | | 1 line | 56-6213.91 | 1 | 5 | 5 | 0,045 |
| | | | 2 lines | 56-6213.92 | 1 | 5 | 5 | 0,045 |
| | | | 3 lines | 56-6213.93 | 1 | 5 | 5 | 0,045 |
| | | | without | 56-6213.8 | 1 | 5 | 5 | 0,045 |
| | | green | symbol | 56-2213.90 | 1 | 5 | 5 | 0,045 |
| | | | 1 line | 56-2213.91 | 1 | 5 | 5 | 0,045 |
| | | | 2 lines | 56-2213.92 | 1 | 5 | 5 | 0,045 |
| | | | 3 lines | 56-2213.93 | 1 | 5 | 5 | 0,045 |
| | | | without | 56-2213.8 | 1 | 5 | 5 | 0,045 |
| | | red | symbol | 56-3213.90 | 1 | 5 | 5 | 0,045 |
| | | | 1 line | 56-3213.91 | 1 | 5 | 5 | 0,045 |
| | | | 2 lines | 56-3213.92 | 1 | 5 | 5 | 0,045 |
| | | | 3 lines | 56-3213.93 | 1 | 5 | 5 | 0,045 |
| | | | without | 56-3213.8 | 1 | 5 | 5 | 0,045 |
| | | white | without | 56-9213.8 | 1 | 5 | 5 | 0,045 |

Standard version:
Standard lettering: Arial; Other lettering on request
Cable lenght 0.2 m; AMP plug.in housing
Other versions on request (Standard AMP 2,8 x 0,8mm)
circuit drawings from page 421, technical drawings from page 416, mounting dimensions from page 419

single pushbutton for front panel mounting flush mounting

lens can be marked

CAUTION: New part no, cable length new 200 mm



| | operation voltage | illumination | mounting of lens | material of lens | colour of lens | part no. | circuit drawing | technical drawing | mounting dimensions | |
|---|-------------------|---------------|------------------|--------------------|-------------------|----------------------------|-----------------|-------------------|---------------------|-------|
| single pushbutton for front panel mounting flush mounting | 24 VDC | 8 green | flush | aluminium anodized | natural | 56-120.11.200.13.05 | 3 | 6 | 6 | 0,100 |
| | | | | plastic | blue (RAL 5017) | 56-110.11.200.13.04 | 3 | 6 | 6 | 0,100 |
| | | | | | yellow (RAL 1023) | 56-110.11.200.13.02 | 3 | 6 | 6 | 0,100 |
| | | | | | green (RAL 6024) | 56-110.11.200.13.03 | 3 | 6 | 6 | 0,100 |
| | | | | | red (RAL 3020) | 56-110.11.200.13.01 | 3 | 6 | 6 | 0,100 |
| | | | raised | aluminium anodized | blue | 56-130.11.200.13.04 | 3 | 6 | 6 | 0,100 |
| | | | | | yellow | 56-130.11.200.13.02 | 3 | 6 | 6 | 0,100 |
| | | | | | green | 56-130.11.200.13.03 | 3 | 6 | 6 | 0,100 |
| | | | | | natural | 56-130.11.200.13.05 | 3 | 6 | 6 | 0,100 |
| | | | | | red | 56-130.11.200.13.11 | 3 | 6 | 6 | 0,100 |
| | | 8 green/2 red | flush | aluminium anodized | natural | 56-120.11.200.11.05 | 2 | 6 | 6 | 0,100 |
| | | | | plastic | blue (RAL 5017) | 56-110.11.200.11.04 | 2 | 6 | 6 | 0,100 |
| | | | | | yellow (RAL 1023) | 56-110.11.200.11.02 | 2 | 6 | 6 | 0,100 |
| | | | | | green (RAL 6024) | 56-110.11.200.11.03 | 2 | 6 | 6 | 0,100 |
| | | | | | red (RAL 3020) | 56-110.11.200.11.01 | 2 | 6 | 6 | 0,100 |
| | | | raised | aluminium anodized | blue | 56-130.11.200.11.04 | 2 | 6 | 6 | 0,100 |
| | | | | | yellow | 56-130.11.200.11.02 | 2 | 6 | 6 | 0,100 |
| | | | | | green | 56-130.11.200.11.03 | 2 | 6 | 6 | 0,100 |
| | | | | | natural | 56-130.11.200.11.05 | 2 | 6 | 6 | 0,100 |
| | | | | | red | 56-130.11.200.11.01 | 2 | 6 | 6 | 0,100 |

Continued on next page

| | operation voltage | illumination | mounting of lens | material of lens | colour of lens | part no. | circuit drawing | technical drawing | mounting dimensions | |
|--|----------------------|---------------|------------------|--------------------|-------------------|----------------------------|-----------------|-------------------|---------------------|-------|
| single pushbutton for front panel mounting flush mounting | 24 VDC | 8 red | flush | aluminium anodized | natural | 56-120.11.200.14.05 | 3 | 6 | 6 | 0,100 |
| | | | | plastic | blue (RAL 5017) | 56-110.11.200.14.04 | 3 | 6 | 6 | 0,100 |
| | | | | | yellow (RAL 1023) | 56-110.11.200.14.02 | 3 | 6 | 6 | 0,100 |
| | | | | | green (RAL 6024) | 56-110.11.200.14.03 | 3 | 6 | 6 | 0,100 |
| | | | | | red (RAL 3020) | 56-110.11.200.14.01 | 3 | 6 | 6 | 0,100 |
| | | | raised | aluminium anodized | blue | 56-130.11.200.14.04 | 3 | 6 | 6 | 0,100 |
| | | | | | yellow | 56-130.11.200.14.02 | 3 | 6 | 6 | 0,100 |
| | | | | | green | 56-130.11.200.14.03 | 3 | 6 | 6 | 0,100 |
| | | | | | natural | 56-130.11.200.14.05 | 3 | 6 | 6 | 0,100 |
| | | | | | red | 56-130.11.200.14.11 | 3 | 6 | 6 | 0,100 |
| | | 8 red/2 green | flush | aluminium anodized | natural | 56-120.11.200.12.05 | 2 | 6 | 6 | 0,100 |
| | | | | plastic | blue (RAL 5017) | 56-110.11.200.12.04 | 2 | 6 | 6 | 0,100 |
| | | | | | yellow (RAL 1023) | 56-110.11.200.12.02 | 2 | 6 | 6 | 0,100 |
| | | | | | green (RAL 6024) | 56-110.11.200.12.03 | 2 | 6 | 6 | 0,100 |
| | | | | | red (RAL 3020) | 56-110.11.200.12.11 | 2 | 6 | 6 | 0,100 |
| | | | raised | aluminium anodized | blue | 56-130.11.200.12.04 | 2 | 6 | 6 | 0,100 |
| | | | | | yellow | 56-130.11.200.12.02 | 2 | 6 | 6 | 0,100 |
| | | | | | green | 56-130.11.200.12.03 | 2 | 6 | 6 | 0,100 |
| | | | | | natural | 56-130.11.200.12.05 | 2 | 6 | 6 | 0,100 |
| | | | | | red | 56-130.11.200.12.01 | 2 | 6 | 6 | 0,100 |
| | without illumination | without | flush | aluminium anodized | natural | 56-020.04.200.00.05 | 4 | 6 | 6 | 0,100 |
| | | | | plastic | blue (RAL 5017) | 56-010.04.200.00.04 | 4 | 6 | 6 | 0,100 |
| | | | | | yellow (RAL 1023) | 56-010.04.200.00.02 | 4 | 6 | 6 | 0,100 |
| | | | | | green (RAL 6024) | 56-010.04.200.00.03 | 4 | 6 | 6 | 0,100 |
| | | | | | red (RAL 3020) | 56-010.04.200.00.01 | 4 | 6 | 6 | 0,100 |
| | | | raised | aluminium anodized | blue | 56-030.04.200.00.04 | 4 | 6 | 6 | 0,100 |
| | | | | | yellow | 56-030.04.200.00.02 | 4 | 6 | 6 | 0,100 |
| | | | | | green | 56-030.04.200.00.03 | 4 | 6 | 6 | 0,100 |
| | | | | | natural | 56-030.04.200.00.05 | 4 | 6 | 6 | 0,100 |
| | | | | | red | 56-030.04.200.00.01 | 4 | 6 | 6 | 0,100 |

Standard version:

cable length 200 mm;

Additional options on request:

special cable length; special plug-in housing;

special colour of lens; voltage illumination: 36/48/72/110 VDC


various symbols

circuit drawings from page 421, technical drawings from page 416, mounting dimensions from page 419

at front

front bezel round

for single pushbutton, external for double pushbutton/indicator


| | material | colour | part no. |  |
|-------------------|----------|-----------------------|-----------------|---|
| front bezel round | plastic | blue (RAL 5017) | 56-1600 | 0,018 |
| | | dark grey (RAL 7043) | 56-1800 | 0,018 |
| | | yellow (RAL 1023) | 56-1400 | 0,018 |
| | | green (RAL 6024) | 56-1500 | 0,018 |
| | | light grey (RAL 7040) | 56-1800A | 0,018 |
| | | orange (RAL 2003) | 56-1300 | 0,018 |
| | | red (RAL 3020) | 56-1200 | 0,018 |
| | | black | 56-1000 | 0,018 |
| | metal | matt chrome | 56-3600 | 0,070 |



special colours for front bezel on request

front bezel square


for single pushbutton front panel mounting/indicator

| | material | colour | part no. |  |
|--------------------|----------|-------------------|----------------|---|
| front bezel square | plastic | blue (RAL 5017) | 56-2600 | 0,026 |
| | | yellow (RAL 1023) | 56-2400 | 0,026 |
| | | green (RAL 6024) | 56-2500 | 0,026 |
| | | red (RAL 3020) | 56-2200 | 0,026 |
| | metal | matt chrome | 56-4600 | 0,085 |



special colours for front bezel on request

front bezel internal for double pushbutton

| | material | colour | part no. |  |
|--|----------|-----------------------|-----------------|---|
| front bezel internal for double pushbutton | plastic | blue (RAL 5017) | 56-5600 | 0,090 |
| | | dark grey (RAL 7043) | 56-5800 | 0,090 |
| | | yellow (RAL 1023) | 56-5400 | 0,090 |
| | | green (RAL 6024) | 56-5500 | 0,090 |
| | | light grey (RAL 7040) | 56-5800A | 0,009 |
| | | orange (RAL 2003) | 56-5300 | 0,009 |
| | | red (RAL 3020) | 56-5200 | 0,090 |
| | metal | matt chrome | 56-7600 | 0,115 |



assembling

cable cover

| | part no. |  |
|-------------|---------------|---|
| cable cover | 56-992 | 0,005 |




bezel cover

| | part no. |  |
|-------------|---------------|---|
| bezel cover | 56-993 | 0,005 |




mounting-set for flush mounting

| | | |
|---------------------------------|----------|---|
| | part no. |  |
| mounting-set for flush mounting | 56-991 | 0,012 |




dismantling tool for front bezel

| | | |
|----------------------------------|----------|---|
| | part no. |  |
| dismantling tool for front bezel | 56-998 | 0,012 |




AMP counterpart set to plug-in housing 2.8 x 0.8 mm

| | | |
|---|----------|---|
| | part no. |  |
| AMP counterpart set to plug-in housing 2.8 x 0.8 mm (set of 10 pieces) | 56-994 | 0,012 |



AMP counterpart set to plug-in housing 6.3 x 0.8 mm

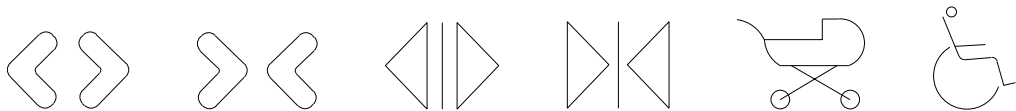
| | | |
|---|----------|---|
| | part no. |  |
| AMP counterpart set to plug-in housing 6.3 x 0.8 mm (set of 10 pieces) | 56-995 | 0,012 |



Marking of lens

symbol

| | | | | | | |
|-------------|--------|--------|--------|--------|-------|-------|
| symbol-no.: | 00.868 | 00.869 | 00.835 | 00.836 | 60523 | 40089 |
|-------------|--------|--------|--------|--------|-------|-------|



specified symbols and text on 1-3 lines on request

of glass mounted pushbuttons, please indicate if the cable exit is left or right. Left or right as seen from outside!

switching unit

switching system

switching system

Self-cleaning, double-breaking snap-action switching system.
1 normally open contact, momentary function

material

connection cable

halogene free polydefine mixture

lens

aluminium anodized or thermoplastic polybutylenterephthalat, PBT
UL 94 V0

front bezel

zinc matt chromium plated
thermoplastic polybutylenterephthalat
PBT UL 94 V0

actuator case

polycarbonate PC UL 94 V0

material of contacts

gold-plated silver

mechanical characteristics

connection method

single pushbutton for front panel mounting

cabel with plug-in connection 4 poles
AMP 2,8 x 0,8 ns
AMP flat plug-in housing rectangular AMP No. 626 057-0

AMP counterpart to flat plug-in housing
(not part of delivery)

double/single pushbutton for glass mounting/indicator

cable with plug-in connection 4 poles
AMP 2,8 x 0,8 ns
AMP flat plug-in housing rectangular AMP No. 626 057-0

AMP counterpart to flat plug-in housing
(not part of delivery)
housing AMP No. 626 056-0
socket AMP No. 166 655-6

wire cross-section

0,5 mm²

starting torque

single pushbutton/indicator for front panel mounting
of screws 80-100 Ncm

double/single pushbutton for glass mounting
of screws 50 Ncm

fixing screws

single pushbutton for front panel mounting M 4x8/indicator
double pushbutton for glass mounting M 4x25
single pushbutton for glass mounting M 4x20 (for Glass up to 5 mm)
single pushbutton for glass mounting M 4x16 (for 4 mm Glass)

actuating travel

~ 0.5 mm

actuating force

6 - 12 N

operating temperature

-40°C...+ 80°C

storage temperature

-45°C...+ 90°C

mechanical life

2 million operations

key

screw with hexagonairecessed hole 2.5 mm

resistance to shock

(semi-sinusoidal)
max. 25 g, pulse width 11 ms as per IEC 68-2-27

degree of protection

front IP 67
back IP 65

resistance to vibration

(sinusoidal)
max. 10 g at 10 to 2000 Hz as per IE 68-2-6

electrical characteristics

illumination

ready status 8 LED green or red
switch on status 2 (3-LED for specialversions)
red or green
operating-voltage 24/36/48/72/96/110 VDC
other operating voltages on request
tolerance: + 25%/- 30%

current consumption

< 50 mA

switch rating

5 VDC, 5 mA
max. 137 VDC/VAC, max. 200 mA

approvals

IEC/EN 61000-4-6
IEC/EN 61000-4-3
IEC/EN 61000-4-4
IEC/EN 61000-4-2
IEC/EN 61000-4-5
CISPR 22, EN 55022

electric strength

4000 VAC, 50 Hz, 1 min between all terminals and mounting plate

approvals

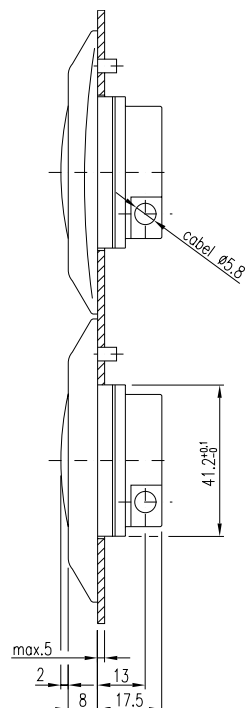
approvals

- CE (declaration of conformity)

technical drawings

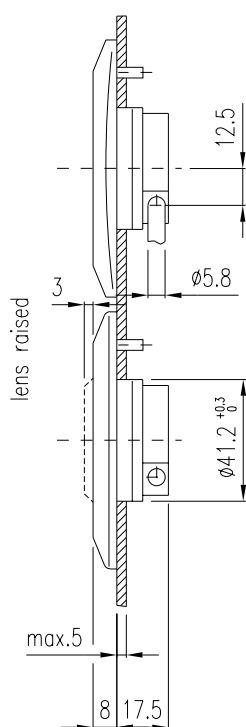
1 indicator for front panel mounting standard mounting

page 403

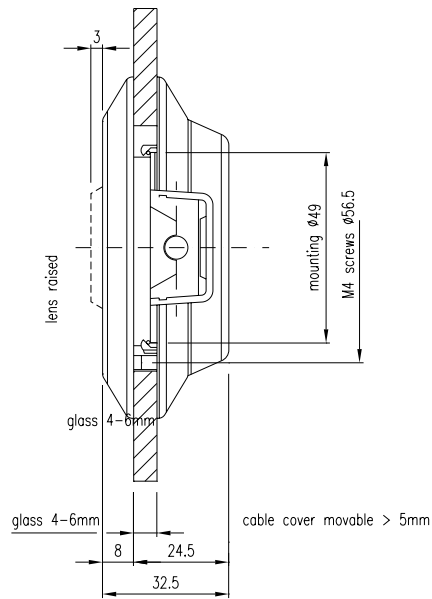


2 single pushbutton for front panel mounting standard mounting

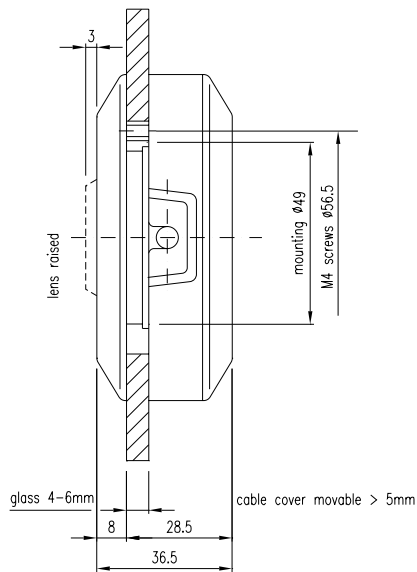
page 404



3 single pushbutton for glass mounting page 406

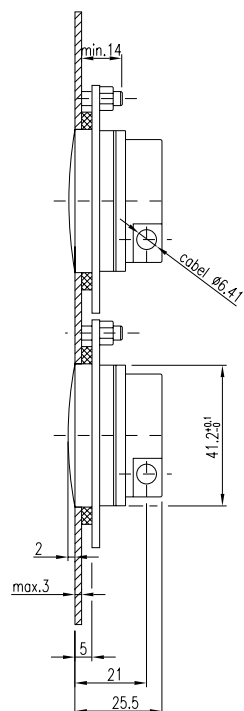


4 double pushbutton for glass mounting page 408



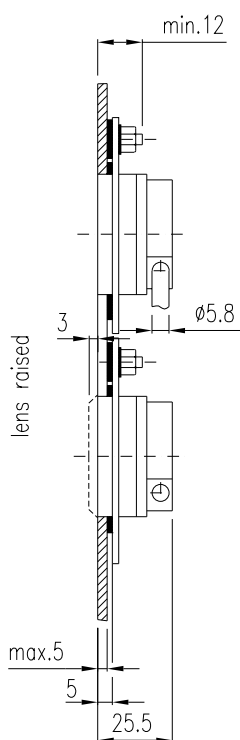
5 indicator for front panel mounting flush mounting

page 410



6 single pushbutton for front panel mounting flush mounting

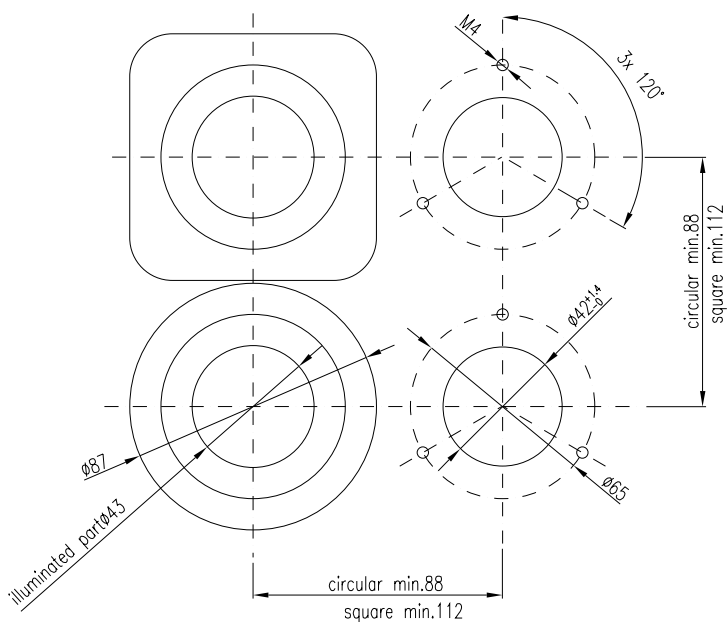
page 411



mounting dimensions

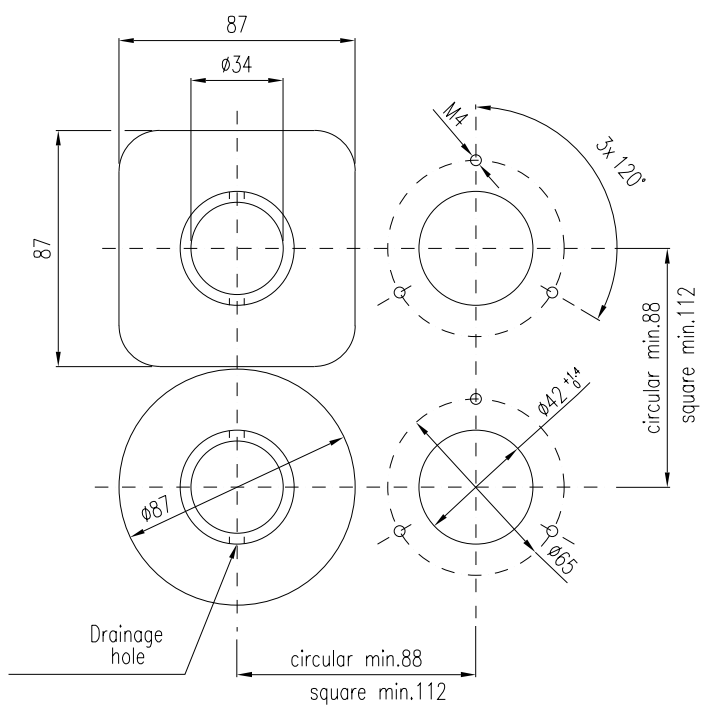
1 indicator for front panel mounting standard mounting

page 403



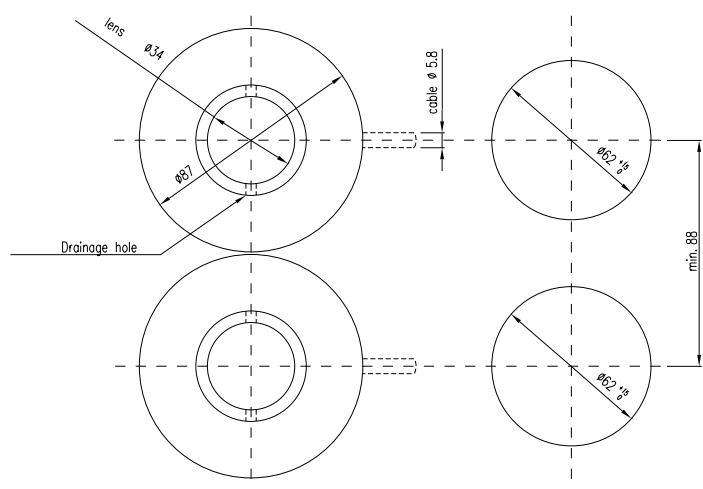
2 single pushbutton for front panel mounting standard mounting

page 404



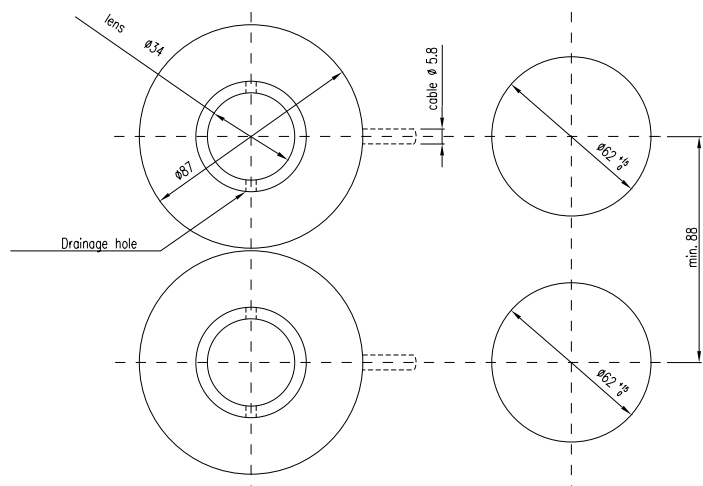
3 single pushbutton for glass mounting

page 406



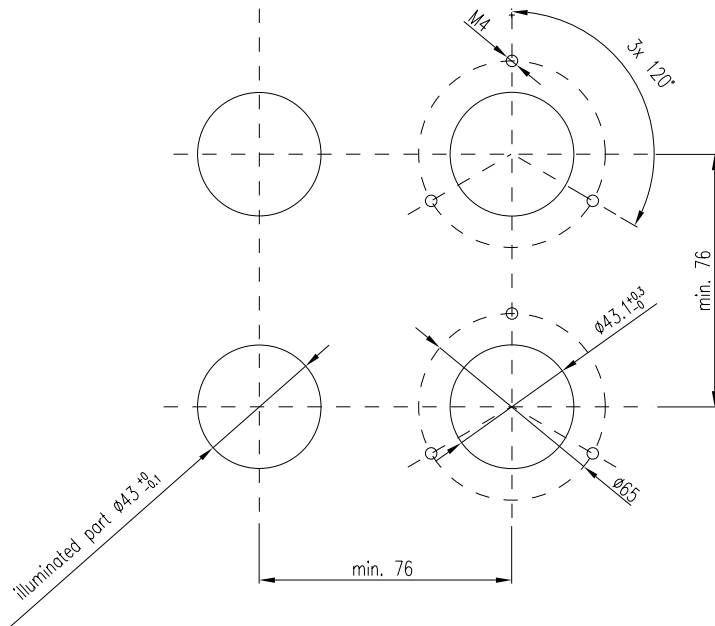
4 double pushbutton for glass mounting

page 408



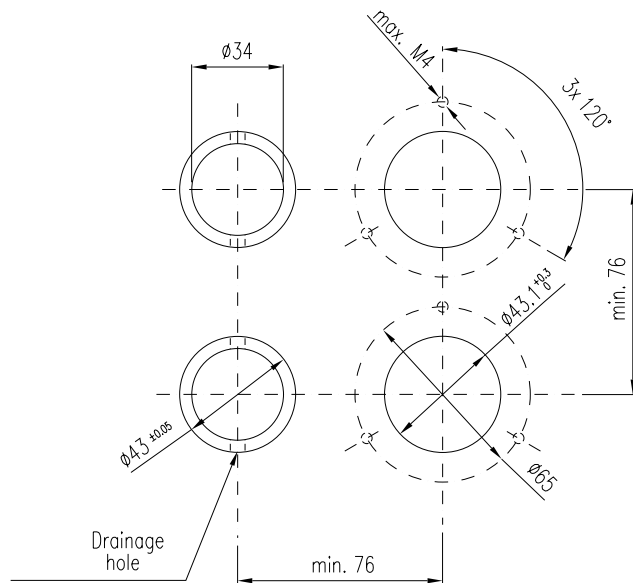
5 indicator for front panel mounting flush mounting

page 410



6 single pushbutton for front panel mounting flush mounting

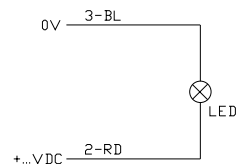
page 411



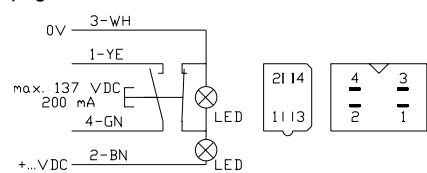
circuit drawings

1 indicator for front panel mounting standard mounting, indicator for front panel mounting flush mounting

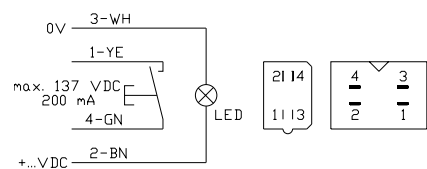
page 403, 410



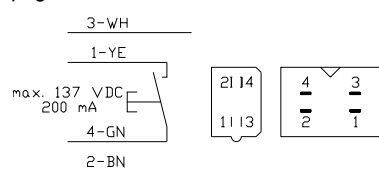
2 single pushbutton for front panel mounting standard mounting, single pushbutton for glass mounting, double pushbutton for glass mounting, single pushbutton for front panel mounting flush mounting
page 404, 406, 408, 411



3 single pushbutton for front panel mounting standard mounting, single pushbutton for glass mounting, double pushbutton for glass mounting, single pushbutton for front panel mounting flush mounting
page 404, 406, 408, 411



4 single pushbutton for front panel mounting standard mounting, single pushbutton for glass mounting, double pushbutton for glass mounting, single pushbutton for front panel mounting flush mounting
page 404, 406, 408, 411



| | |
|----------------|--|
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