



ETISIG

Pushbutton Actuators and LED Indicators

Pushbuttons, Selector Switches,
Lights and Control Station Enclosures **662**

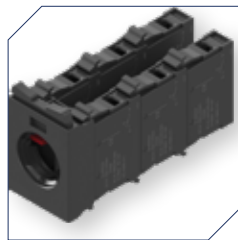
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SWITCH TO
A SAFE FUTURE

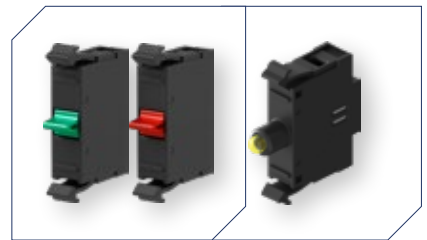
ETISIG Pushbuttons, Selector Switches, Lights and Control Station Enclosures



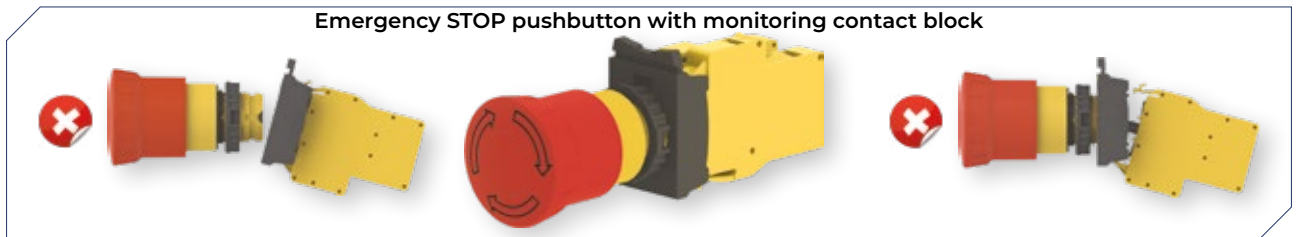
Standard device includes: the module itself, rubber seal, nut



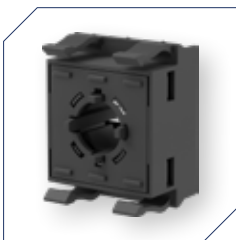
Cascade installation option for up to three levels



Possibility to mount contact blocks as well as LED module



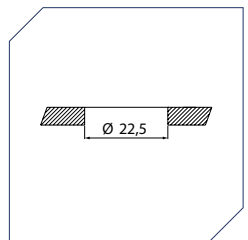
Latch module for set-reset function. Changes the position of the contacts of contact block by pressing once - latch function



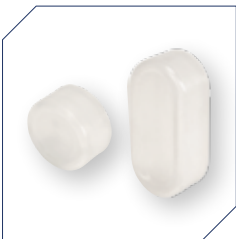
Protection against accidental emergency pushbutton



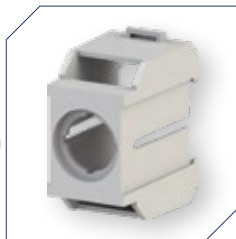
Standard mounting diameter Ø22.5mm



Protective silicone cap for extra protection against dust and moisture



Adaptor for mounting actuators on the DIN rail



Label plates



for installation of actuators

Actuators and enclosures

Features:

- // modular design,
- // standard mounting diameter $\varnothing 22.5\text{mm}$,
- // snap fastening system,
- // cascade installation possibility,
- // IP66 degree of protection,
- // silicone antidust covers.

Pushbuttons, switches and signal lamps

| | |
|----------------------------|--|
| Standards | IEC 60947-5-1, ISO 13850 (EN 418), IEC 60947-5-5 |
| Certificates | CE |
| Base material | Polyamide (PA66) or polycarbonate (PC) |
| Degree of protection IP | IP66 and IP52 (PB2I-F/RG) according to IEC 60529 |
| Mechanical life | |
| Pushbuttons | 3 x 10 ⁶ cycles |
| Twin pushbuttons | 2 x 10 ⁶ cycles |
| Mushroom pushbuttons | 3 x 10 ⁵ cycles |
| Emergency STOP pushbuttons | 1 x 10 ⁵ cycles |
| Switch selectors | 1 x 10 ⁶ cycles |
| Applications | Outside or inside |

LED module

| | |
|---|---|
| Standards | IEC 60947-5-1 |
| Operating voltage range | 0,85...1,10 x U _e |
| Degree of protection IP (IEC 60529) | IP20 |
| Consumption (V AC/V DC) | 10 mA |
| Rated insulation voltage U _i (IEC 60947-1) | 2,5 kV |
| Operational temperature range | -25°C ... 70°C |
| Lifetime | at least 100,000 hours |
| The power of light | Red 70 mcd |
| | Yellow 115 mcd |
| | White 275 mcd |
| | Blue 64 mcd |
| | Green 150 mcd |
| Cross-section of conductors to be connected | 1 x 0,5 mm ² ... 2 x 2,5 mm ² |
| Terminal torque | 0,8 Nm |

Contact blocks

| | | | | |
|---|--|-----------|--------------|-----------|
| Rated insulation voltage U_i | 690 V | | | |
| Rated insulation voltage pulse U_{imp} | 4 kV | | | |
| IP degree of protection (IEC 60529) | IP20 | | | |
| Conventional thermal current I_{th} | 10 A | | | |
| Conformity to standards | IEC 60947-5-1, ISO 13850 (EN 418), IEC 60947-5-5 | | | |
| Certifications | CE | | | |
| Electrical characteristics according to IEC 60947-5-1 | | | | |
| Application Category AC-15 | BC...CS-NO/NC | | BC-NC-PBM | |
| | U_e (V AC) | I_e (A) | U_e (V AC) | I_e (A) |
| | 24 | 10 | 24 | 6 |
| | 48 | 10 | 48 | 6 |
| | 60 | 10 | 60 | 6 |
| | 110 | 6 | 110 | 6 |
| | 220 | 3 | 220 | 3 |
| | 380 | 2 | 380 | 2 |
| Category of DC-13 application | BC...CS-NO/NC | | BC-NC-PBM | |
| | U_e (V DC) | I_e (A) | U_e (V DC) | I_e (A) |
| | 24 | 2,5 | 24 | 2,5 |
| | 48 | 1,4 | 48 | 1,4 |
| | 60 | 1 | 60 | 1 |
| | 110 | 0,55 | 110 | 0,55 |
| | 220 | 0,27 | 220 | 0,27 |
| | 300 | 0,2 | 300 | 0,2 |
| 600 | 0,1 | 600 | 0,1 | |
| UL and CSA compliant design | AC/Heavy duty mode (A600) and DC/Standard mode (Q600) | | | |
| Contact resistance (IEC 60255) | $\leq 25\text{m}\Omega$ | | | |
| Protection against electric shock (IEC 60536) | Class II | | | |
| Cross-section of connectable conductors | $1 \times 0,5\text{ mm}^2 \dots 2 \times 2,5\text{ mm}^2$ | | | |
| Terminal torque | 0,8 Nm | | | |
| Operational temperature | $-25^\circ\text{C} \dots 70^\circ\text{C}$ | | | |
| Vibration resistance (IEC 60068-2-6) | 16 g for a frequency range of 40 to 500 Hz. Maximum gap of 0.75 mm (peak to peak) | | | |
| Mechanical life | 1 x 10 ⁶ cycles | | | |

Non-illuminated actuators

Flush head pushbutton (spring return, non-illuminated)

| Type | Colour | Code no | Dimensions | kg | Box |
|-----------|--------|-----------|------------|-------|------|
| NSE-PBF-W | White | 004774000 | | 0,021 | 1/10 |
| NSE-PBF-R | Red | 004774001 | | 0,021 | 1/10 |
| NSE-PBF-G | Green | 004774002 | | 0,021 | 1/10 |
| NSE-PBF-Y | Yellow | 004774003 | | 0,021 | 1/10 |
| NSE-PBF-B | Blue | 004774004 | | 0,021 | 1/10 |
| NSE-PBF-C | Black | 004774005 | | 0,021 | 1/10 |

* Important: The holder and contact block are not included



Extended head pushbutton (spring return, non-illuminated)

| Type | Colour | Code no | Dimensions | kg | |
|-----------|----------|-----------|------------|-------|------|
| NSE-PBP-W | ○ White | 004774010 | | 0,021 | 1/10 |
| NSE-PBP-R | ● Red | 004774011 | | 0,021 | 1/10 |
| NSE-PBP-G | ● Green | 004774012 | | 0,021 | 1/10 |
| NSE-PBP-Y | ● Yellow | 004774013 | | 0,021 | 1/10 |
| NSE-PBP-B | ● Blue | 004774014 | | 0,021 | 1/10 |
| NSE-PBP-C | ● Black | 004774015 | | 0,021 | 1/10 |

* Important: The holder and contact block are not included



Mushroom pushbutton Ø 40 mm (spring return, non-illuminated)

| Type | Colour | Code no | Dimensions | kg | |
|-----------|---------|-----------|------------|-------|------|
| NSE-PBM-R | ● Red | 004774020 | | 0,024 | 1/10 |
| NSE-PBM-G | ● Green | 004774021 | | 0,024 | 1/10 |
| NSE-PBM-C | ● Black | 004774022 | | 0,024 | 1/10 |

* Important: The holder and contact block are not included



Mushroom pushbutton Ø 40 mm (latch, with key to release, non-illuminated)

| Type | Colour / description | Code no | Dimensions | kg | |
|-------------|--|-----------|------------|------|------|
| NSE-PBM-R-K | ● Red mushroom pushbutton (latch, with key to release) | 004774023 | | 0,09 | 1/10 |

* Important: The holder and contact block are not included



Twin pushbutton (spring return, non-illuminated)

| Type | Colour / description | Code no | Dimensions | kg | |
|-----------------|----------------------------|-----------|------------|-------|------|
| NSE-PB2/RG-IO | ● Green/Red (I/O) | 004774030 | | 0,025 | 1/25 |
| NSE-PB2/RG-STSP | ● Green/Red (START/STOP) | 004774031 | | 0,025 | 1/25 |
| NSE-PB2/RG | ● Green/Red | 004774032 | | 0,025 | 1/25 |
| NSE-PB2/WC-IO | ○ White/Black (I/O) | 004774033 | | 0,025 | 1/25 |
| NSE-PB2/WC-STSP | ○ White/Black (START/STOP) | 004774034 | | 0,025 | 1/25 |
| NSE-PB2/WC | ○ White/Black | 004774035 | | 0,025 | 1/25 |
| NSE-PB2/CC-PN | ● Black/Black (+/-) | 004774036 | | 0,025 | 1/25 |
| NSE-PB2/CC-FR | ● Black/Black (↑/↓) | 004774037 | | 0,025 | 1/25 |

* Important: The holder and contact block are not included



Emergency STOP mushroom pushbutton Ø 42 mm (latch, non-illuminated)

| Type | Colour / description | Code no | Dimensions | kg | |
|--------------|---|-----------|------------|-------|------|
| NSE-PBM-T-R | Red (turn to release) | 004774040 | | 0,049 | 1/10 |
| NSE-PBM-T-RG | Red (turn to release, with indication) | 004774042 | | | |
| NSE-PBM-P-R | Red (pull to release) | 004774041 | | 0,049 | 1/10 |
| NSE-PBM-P-RG | Red (pull to release, with indication) | 004774043 | | | |



* Important: The holder and contact block are not included

Two-position switch selector "0-1" (non-illuminated)

| Type | Colour / description | Scheme | Code no | Dimensions | kg | |
|------------|------------------------------|--------|-----------|------------|-------|------|
| NSE-S2-F45 | Black 45° (latch) | | 004774080 | | 0,025 | 1/10 |
| NSE-S2-F90 | Black 90° (latch) | | 004774081 | | 0,025 | |
| NSE-S2-R45 | Black 45° (spring return) | | 004774082 | | 0,025 | |
| NSE-S2-R90 | Black 90° (spring return) | | 004774083 | | 0,025 | |



* Important: The holder and contact block are not included

Switch key selector "0-1" (latch, non-illuminated)

| Type | Colour / description | Scheme | Code no | Dimensions | kg | |
|-------------|----------------------|--------|-----------|------------|-------|---|
| NSE-S2K-F45 | Black 45° (latch) | | 004774088 | | 0,087 | 1 |



* Important: The holder and contact block are not included

Three-position switch selector "1-0-2" (non-illuminated)

| Type | Colour / description | Scheme | Code no | Dimensions | kg | |
|-------------|--|--------|-----------|------------|-------|------|
| NSE-S3-F45 | ● Black 45° (latch) | | 004774084 | | 0,025 | 1/10 |
| NSE-S3-R45 | ● Black 45°(spring return) | | 004774085 | | 0,025 | |
| NSE-S3-RL45 | ● Black, 45° (spring return left side) | | 004774086 | | 0,025 | |
| NSE-S3-RR45 | ● Black, 45°(spring return right side) | | 004774087 | | 0,025 | |

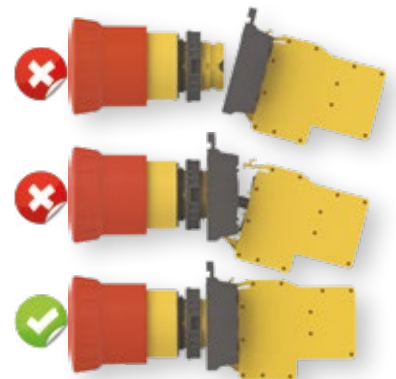
* Important: The holder and contact block are not included



Mushroom pushbuttons for emergency STOP with monitoring function

Application - metering and signalling panels, control panels.
 Emergency Mushroom pushbuttons are one of the most common and important devices for emergency shutdown and indication in case of emergency situations arising in electrical equipment circuits and control panels.
 Warning: if the components are not installed correctly, the function of the appliance may be impaired. This can result in an emergency shutdown blockage, exposing users to additional risks.

The NSE-BC-NC-PBM self-monitoring contact block is designed to provide a higher level of installation safety and control. Its use with the NSE-PBM-T-RGM/NSE-PBM-P-RGM range of Emergency STOP pushbuttons provides electrical interlocking in the event of incomplete or incorrectly assembled Emergency Stop button components. Developed in accordance with international standards IEC 60947-5-5 and UL 508



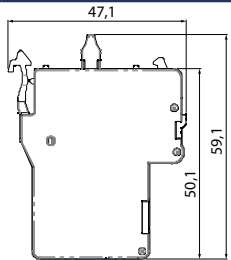
Emergency STOP mushroom pushbutton Ø 42 mm, self-monitoring function (latch, non-illuminated)

| Type | Colour / description | Code no | Dimensions | kg | |
|---------------|---|-----------|------------|-------|------|
| NSE-PBM-T-RGM | ● Red (turn to release, with indication, self monitoring option) | 004774044 | | 0,058 | 1/10 |
| NSE-PBM-P-RGM | ● Red (pull to release, with indication, self monitoring option) | 004774045 | | 0,058 | 1/10 |



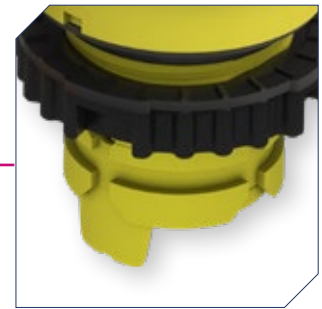
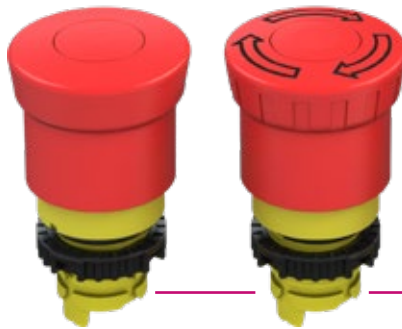
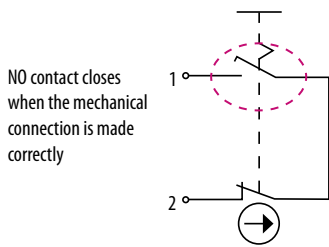
* Important: The holder and contact block are not included

Contact block with self-monitoring function

| Type | Description | Code no | Dimensions | kg | |
|---------------|-------------------|-----------|---|-------|------|
| NSE-BC-NC-PBM | 1NC contact block | 004774114 |  | 0,023 | 1/10 |



Circuit diagram

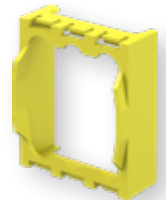


Protection, provides self-monitoring of the mechanical assembly.

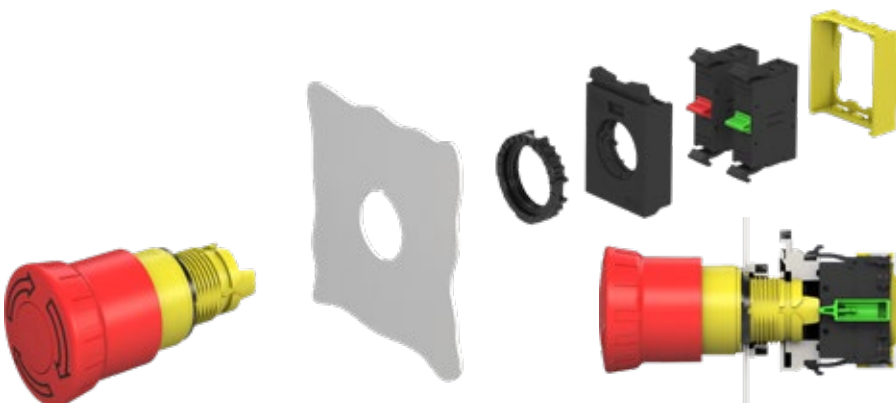
When using standard contact blocks, the NSE-PBMH retainer must be used. The contact block retainer allows all elements to be assembled into a single unit, provides greater safety and reduces the possibility of operating errors.

Contact block retainer

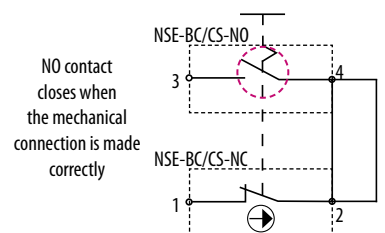
| Type | Description | Code no | Compatibility | kg | |
|----------|--|-----------|--|-------|-----|
| NSE-PBMH | Contact block retainer for checking the mechanical assembly. | 004774046 | Max number of contact blocks: 3 NSE-BC/CS-NO/NC blocks. Note: Does not allow overlapping of contacts | 0,002 | 1/1 |



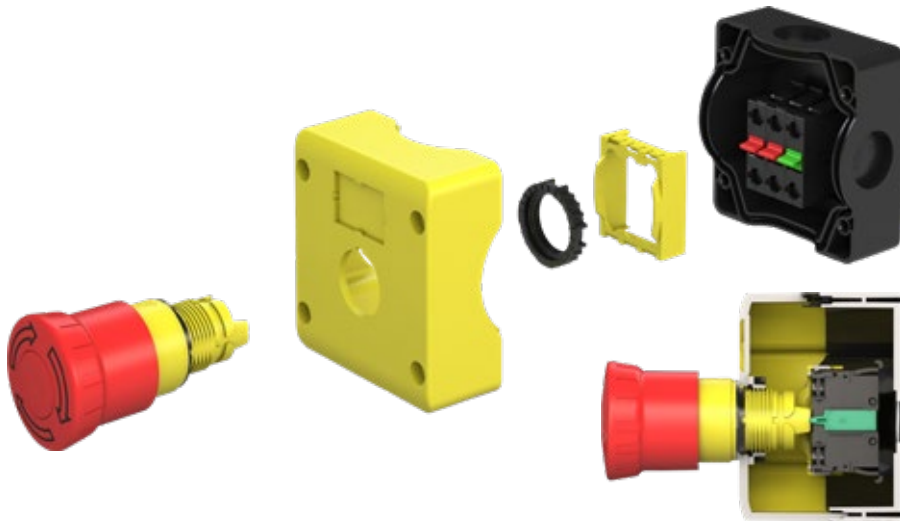
Installation of standard contact blocks for panel mounting



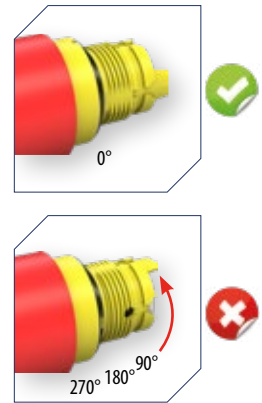
Wiring diagram for mounting standard contact blocks to ensure correct installation



Installation of standard contact blocks for enclosure mounting



When installing the emergency STOP pushbuttons, this installation makes it possible to check the correct assembly



Illuminated actuators

Flush head pushbutton (spring return, non-illuminated)

| Type | Colour | Code no | Dimensions | kg | | |
|------------|--------|---------|------------|----|-------|------|
| NSE-PBFI-W | ○ | White | 004774050 | | 0,021 | 1/10 |
| NSE-PBFI-R | ● | Red | 004774051 | | 0,022 | 1/10 |
| NSE-PBFI-G | ● | Green | 004774052 | | 0,022 | 1/10 |
| NSE-PBFI-Y | ● | Yellow | 004774053 | | 0,022 | 1/10 |
| NSE-PBFI-B | ● | Blue | 004774054 | | 0,022 | 1/10 |

* Important: The holder and contact block are not included




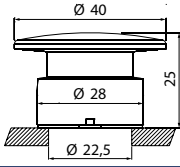
Extended head pushbutton (spring return, non-illuminated)

| Type | Colour | Code no | Dimensions | kg | | |
|------------|--------|---------|------------|----|-------|------|
| NSE-PBPI-R | ● | Red | 004774060 | | 0,021 | 1/10 |
| NSE-PBPI-G | ● | Green | 004774061 | | 0,021 | 1/10 |

* Important: The holder and contact block are not included




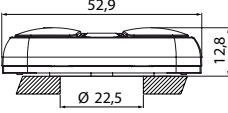







Mushroom pushbutton Ø 40 mm (spring return, non-illuminated)

| Type | Colour | Code no | Dimensions | kg | |
|------------|---|-----------|---|-------|------|
| NSE-PBMI-R |  Red | 004774062 |  | 0,026 | 1/10 |

* Important: The holder and contact block are not included




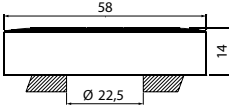
Twin pushbutton (spring return, non-illuminated)

| Type | Colour / description | Code no | Dimensions | kg | |
|------------------|--|-----------|---|-------|------|
| NSE-PB2I/RG-IO |  Green/Red (I/O) | 004774070 |  | 0,025 | 1/25 |
| NSE-PB2I/RG-STSP |  Green/Red (START/STOP) | 004774071 | | 0,025 | 1/25 |
| NSE-PB2I/RG |  Green/Red | 004774072 | | 0,025 | 1/25 |
| NSE-PB2I/WC-IO |  White/Black (I/O) | 004774073 | | 0,025 | 1/25 |
| NSE-PB2I/WC-STSP |  White/Black (START/STOP) | 004774074 | | 0,025 | 1/25 |
| NSE-PB2I/WC |  White/Black | 004774075 | | 0,025 | 1/25 |
| NSE-PB2I/CC-PN |  Black/Black (+/-) | 004774076 | | 0,025 | 1/25 |
| NSE-PB2I/CC-FR |  Black/Black (↑/↓) | 004774077 | | 0,025 | 1/25 |

* Important: The holder and contact block are not included





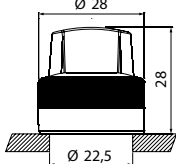


IP52 twin pushbutton (spring return, non-illuminated)

| Type | Colour / description | Code no | Dimensions | kg | |
|------------------|---|-----------|---|-------|------|
| NSE-PB2I-F/RG-IO |  Green/Red (I/O) | 004774078 |  | 0,025 | 1/10 |

* Important: The holder and contact block are not included





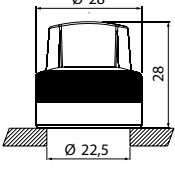




Two-position switch selector "0-1" (illuminated)

| Type | Colour / description | Scheme | Code no | Dimensions | kg | |
|---------------|--|---|-----------|---|------|------|
| NSE-S2I-F90-R |  Red 90° (latch) |  | 004774090 |  | 0,02 | 1/10 |
| NSE-S2I-F90-G |  Green 90° (latch) |  | 004774091 | | 0,02 | |

* Important: The holder and contact block are not included



Three-position switch selector "1-0-2" (illuminated)

| Type | Colour / description | Scheme | Code no | Dimensions | kg | |
|---------------|---|---|-----------|---|------|------|
| NSE-S3I-F45-R |  Red 45° (latch) |  | 004774092 |  | 0,02 | 1/10 |
| NSE-S3I-F45-G |  Green 45° (latch) |  | 004774093 | | 0,02 | |
| NSE-S3I-F45-Y |  Yellow 45° (latch) |  | 004774094 | | 0,02 | |

* Important: The holder and contact block are not included



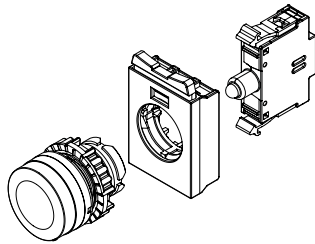
Caps for LED module

Caps for LED module

| Type | Colour | Code no | Dimensions | kg | |
|--------------|----------|-----------|------------|-------|------|
| NSE-ILM-HD-W | White | 004774130 | | 0,016 | 1/10 |
| NSE-ILM-HD-R | Red | 004774131 | | 0,016 | 1/10 |
| NSE-ILM-HD-G | Green | 004774132 | | 0,016 | 1/10 |
| NSE-ILM-HD-Y | Yellow | 004774133 | | 0,016 | 1/10 |
| NSE-ILM-HD-B | Blue | 004774134 | | 0,016 | 1/10 |
| NSE-ILM-HD-O | Orange** | 004774135 | | 0,016 | 1/10 |

* Important: The holder and LED module are not included.

** for a better performance, use a yellow LED module



Accessories

Holder for contact blocks and LED modules

| Type | Description | Code no | Dimensions | kg | |
|------------|--------------------------|-----------|------------|-------|------|
| NSE-FL3/10 | 3 module holder (10 pcs) | 004774100 | | 0,013 | 10 |
| NSE-FL3 | 3 module holder (1 pc) | 004774101 | | 0,013 | 1/25 |
| NSE-FL5/5 | 5 module holder (5 pcs) | 004774102 | | 0,02 | 5 |
| NSE-FL5 | 5 module holder (1 pc) | 004774103 | | 0,02 | 1 |



Contact block

| Type | Description | Code no | Dimensions | kg | |
|--------------|----------------------------|-----------|------------|-------|------|
| NSE-BC-NO/10 | 1NO contact block (10 pcs) | 004774110 | | 0,015 | 10 |
| NSE-BC-NO | 1NO contact block (1 pc) | 004774111 | | 0,015 | 1/25 |
| NSE-BC-NC/10 | 1NC contact block (10 pcs) | 004774112 | | 0,015 | 10 |
| NSE-BC-NC | 1NC contact block (1 pc) | 004774113 | | 0,015 | 1/25 |



LED module

| Type | Colour | Voltage | Code no | Dimensions | | | |
|----------------|--------|---------|-----------|------------|--|-------|------|
| NSE-ILM-024U-W | | White | 24V AC/DC | 004774120 | | 0,016 | 1/10 |
| NSE-ILM-024U-R | | Red | 24V AC/DC | 004774121 | | | |
| NSE-ILM-024U-G | | Green | 24V AC/DC | 004774122 | | | |
| NSE-ILM-024U-Y | | Yellow | 24V AC/DC | 004774123 | | | |
| NSE-ILM-024U-B | | Blue | 24V AC/DC | 004774124 | | | |
| NSE-ILM-240V-W | | White | 240 V AC | 004774125 | | | |
| NSE-ILM-240V-R | | Red | 240 V AC | 004774126 | | | |
| NSE-ILM-240V-G | | Green | 240 V AC | 004774127 | | | |
| NSE-ILM-240V-Y | | Yellow | 240 V AC | 004774128 | | | |
| NSE-ILM-240V-B | | Blue | 240 V AC | 004774129 | | | |



Latch module

| Type | Description | Code no | Dimensions | | |
|-----------|--|-----------|------------|-------|---|
| NSE-BC-LF | For set-reset function. Changes the position of the contacts of contact block by pressing once - latch funktion | 004774115 | | 0,019 | 1 |



* Important:

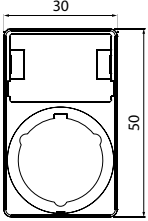

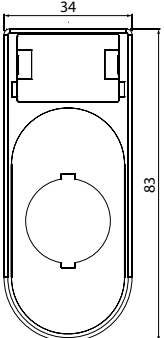
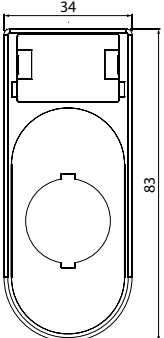
Mechanical push-on/push-off block for contact blocks mounted on buttons: CSW-BF, CSW-BFI, CSW-BS, CSW-BSI, CSW-BGA, CSW-BC, CSW-BCI
 Note: use ONLY with contact block NSE-BC-NC (1NC) and NOT with NO contact block!!!

Adaptor ring

| Type | Description | Code no | Dimensions | | |
|--------------|-----------------------|-----------|------------|-------|---|
| NSE-RR-30/22 | Ø 30 mm ... Ø 22,5 mm | 004774140 | | 0,006 | 1 |



Label plates

| Type | Description / Compatibility | Code no | Dimensions | kg | |
|--------------|--|-----------|---|-------|---|
| NSE-PH-SB+MP | Label plate for marking plate (27 x 18 mm) with transparent cover | 004774141 |  | 0,004 | 5 |
| NSE-PH-SB | Label plate for marking plate (27 x 18 mm) without transparent cover | 004774143 |  | | |
| NSE-PH-DB+MP | Label plate for marking plate (27 x 18 mm) with transparent cover, for IP52 twin pushbutton module | 004774142 |  | 0,004 | 5 |
| NSE-PH-DB | Label plate for marking plate (27 x 18 mm) with transparent cover, for IP52 twin pushbutton module without transparent cover | 004774144 |  | | |



NSE-PH-SB+MP



NSE-PH-SB


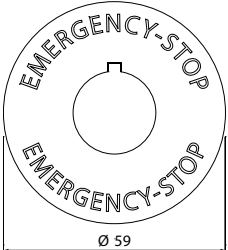


NSE-PH-DB+MP



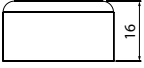
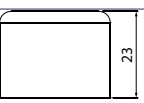
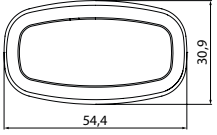
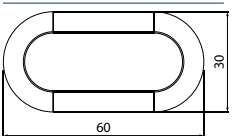
NSE-PH-DB

Nameplate ring

| Type | Colour / Description | Code no | Dimensions | kg | |
|------------|--|-----------|---|-------|---|
| NSE-PL-EMG |  Emergency STOP | 004774145 |  | 0,009 | 5 |



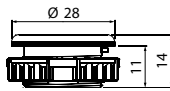
Protective silicone cap

| Type | Compatibility | Code no | Dimensions | kg | |
|----------------|--|-----------|---|-------|---|
| NSE-SPC-PBF | Flush head non-illuminated pushbuttons and caps for LED module | 004774170 |  | 0,005 | 5 |
| NSE-SPC-PBP | Extended head and non-illuminated flush head pushbuttons | 004774171 |  | 0,005 | 5 |
| NSE-SPC-PB2* | Twin pushbuttons | 004774172 |  | 0,005 | 5 |
| NSE-SPC-PB2-F* | IP52 twin pushbutton, to ensure IP66 degree of protection | 004774173 |  | 0,006 | 5 |



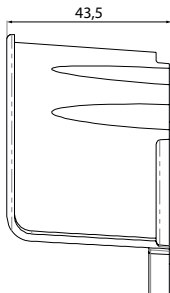
** Important: Not compatible with pushbutton in control station enclosures

Plug

| Type | Description | Code no | Dimensions | kg | |
|--------|----------------|-----------|---|-------|---|
| NSE-HP | Plug Ø 22,5 mm | 004774174 |  | 0,008 | 5 |



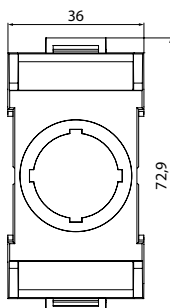
ES protection

| Type | Description | Code no | Dimensions | kg | |
|------------|---|-----------|---|-------|---|
| NSE-PC-PBM | Protection against accidental pressing of the emergency STOP pushbutton | 004774175 |  | 0,027 | 1 |



* Important: Only applicable for NSE-CS1-Y. You could install this accessory with other control stations models but you will need to disenable one hole closer this accessory

Adaptor for mounting actuators on DIN rail

| Type | Description | Code no | Dimensions | kg | |
|------------|---|-----------|---|-------|---|
| NSE-ADR-1M | Allows the pushbutton/signal lamp/switch to be mounted on a 35mm DIN rail. Note: Does not allow the following accessories to be used: - Self-monitoring contact block (BCM01F-CSW); - 5-module contact block holder. | 004774176 |  | 0,033 | 1 |



*Important: Not compatible with self-monitoring contact block NSE-BC-NC-PBM

*Important: Not compatible with the 5 module holder NSE-FL5

Assembly tool

| Type | Description | Code no | kg | |
|---------|------------------------|-----------|-------|---|
| NSE-FRT | Assembly tool for ring | 004774177 | 0,025 | 1 |



Empty control station enclosures

Control station enclosures

| | |
|-------------------------------------|--|
| Standards | IEC 60947-5-1, IEC 50102, IEC 60529, UL 508, UL 50 |
| Certificates | CE |
| Degree of protection IP (IEC 60529) | IP66 (NEMA 4X) |
| Operating temperature | -25°C ... 70°C |
| Material | Polycarbonate (cover and base) |
| Colour | Grey (RAL 7035) or yellow (RAL 1003) |
| Base colour | Black (RAL 9005) |
| Cable entry | ØM20 / PG13,5 / 1/2" e ØM16 / 3/8" |
| Application | External/internal |



Empty control station enclosures

| Type | Description | Colour | Code no | kg | Box |
|------------|--------------------------------|--------------|-----------|------|-----|
| NSE-CS1-Y | Housing with 1 hole, emergency | Yellow-black | 004774150 | 0,13 | 1 |
| NSE-CS1-GR | 1-hole housing | Grey-black | 004774151 | 0,13 | 1 |
| NSE-CS2-GR | 2-hole housing | Grey-black | 004774152 | 0,17 | 1 |
| NSE-CS3-GR | 3-hole housing | Grey-black | 004774153 | 0,2 | 1 |
| NSE-CS4-GR | 4-hole housing | Grey-black | 004774154 | 0,25 | 1 |
| NSE-CS6-GR | 6-hole housing | Grey-black | 004774155 | 0,32 | 1 |

Accessories for enclosures

Contact block for enclosure mounting

| Type | Description | Code no | Dimensions | kg | Box |
|--------------|--------------------|-----------|------------|------|-----|
| NSE-BC/CS-NO | 1NO contact module | 004774156 | | 0,15 | 1 |
| NSE-BC/CS-NC | 1NC contact module | 004774157 | | 0,15 | 1 |

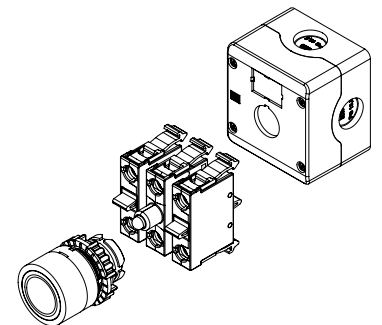
* Important: The contact blocks do not require a contact block holder to be mounted in the enclosure. The contact blocks are fixed into the base of the enclosure.



LED module for enclosure mounting

| Type | Colour | Voltage | Code no | Dimensions | kg | Box |
|-------------------|--------|-----------|-----------|------------|-------|------|
| NSE-ILM-CS-024U-W | White | 24V AC/DC | 004774158 | | 0,016 | 1/10 |
| NSE-ILM-CS-024U-R | Red | 24V AC/DC | 004774159 | | | |
| NSE-ILM-CS-024U-G | Green | 24V AC/DC | 004774160 | | | |
| NSE-ILM-CS-024U-Y | Yellow | 24V AC/DC | 004774161 | | | |
| NSE-ILM-CS-024U-B | Blue | 24V AC/DC | 004774162 | | | |
| NSE-ILM-CS-240V-W | White | 240 V AC | 004774163 | | | |
| NSE-ILM-CS-240V-R | Red | 240 V AC | 004774164 | | | |
| NSE-ILM-CS-240V-G | Green | 240 V AC | 004774165 | | | |
| NSE-ILM-CS-240V-Y | Yellow | 240 V AC | 004774166 | | | |
| NSE-ILM-CS-240V-B | Blue | 240 V AC | 004774167 | | | |

* Important: The module holder is not required for fitting the LED modules into the enclosure. The modules are fixed into the base of the enclosure.



Assembly configurations

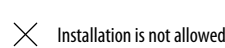
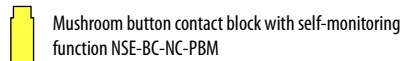
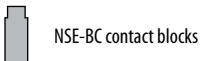
Assembly configurations

| Type | Illuminate switch selectors | Non-illuminate switch selectors | Illuminate pushbuttons | |
|-----------------------------|--------------------------------|------------------------------------|------------------------|---|
| | NSE-S2I / S3I | NSE-S2 / S3 / S2K | NSE-PB2I | NSE-PBMI, NSE-PB2I-F, NSE-PBFI, NSE-PBPI |
| Max. number of contacts | Max. 4 | Max. 6 | Max. 4 | Max. 6 |
| 3-module holder NSE-FL3 | | | | |
| Max. number of contacts | Max. 4 | Max. 6 | Max. 4 | Max. 6 |
| 5-module holder1 NSE-FL5 | | | | |
| Type | Non-illuminate pushbuttons | | | |
| | NSE-PBM-T/P | NSE-PB2 | NSE-PBF | NSE-PBM, NSE-PBP |
| Max. number of contacts | Max. 4 | Max. 4 | Max. 6 | Max. 6 |
| 3-module holder NSE-FL3 | | | | |
| Max. number of contacts | - | Max. 4 | Max. 6 | Max. 6 |
| 5-module holder2 NSE-FL5 | - | | | |

1 LED modules for illumination can only be used in the middle position of the NSE-FL5 holder

2 Do not use self-controlling contact blocks with the NSE-FL5 holder;

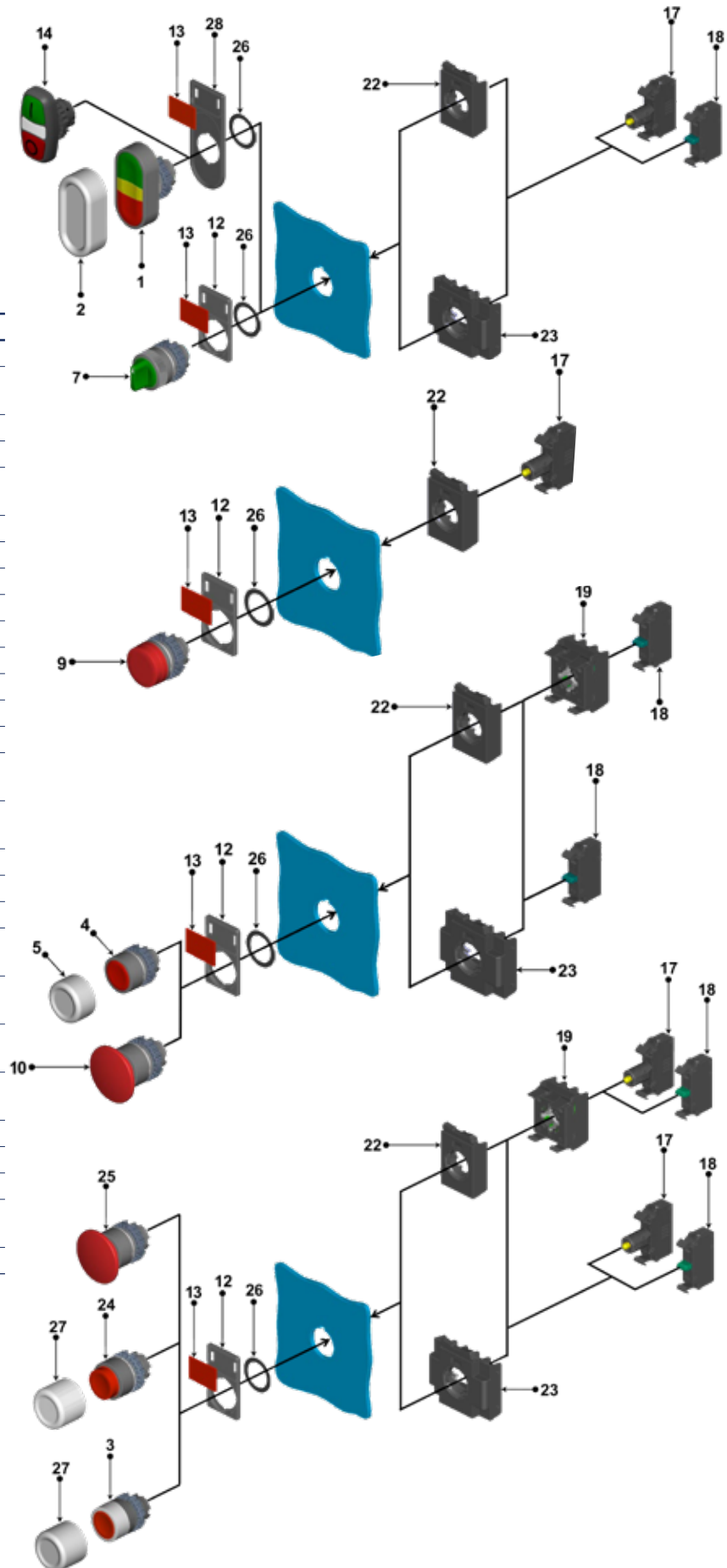
2 Do not use emergency buttons with the NSE-FL5 flange

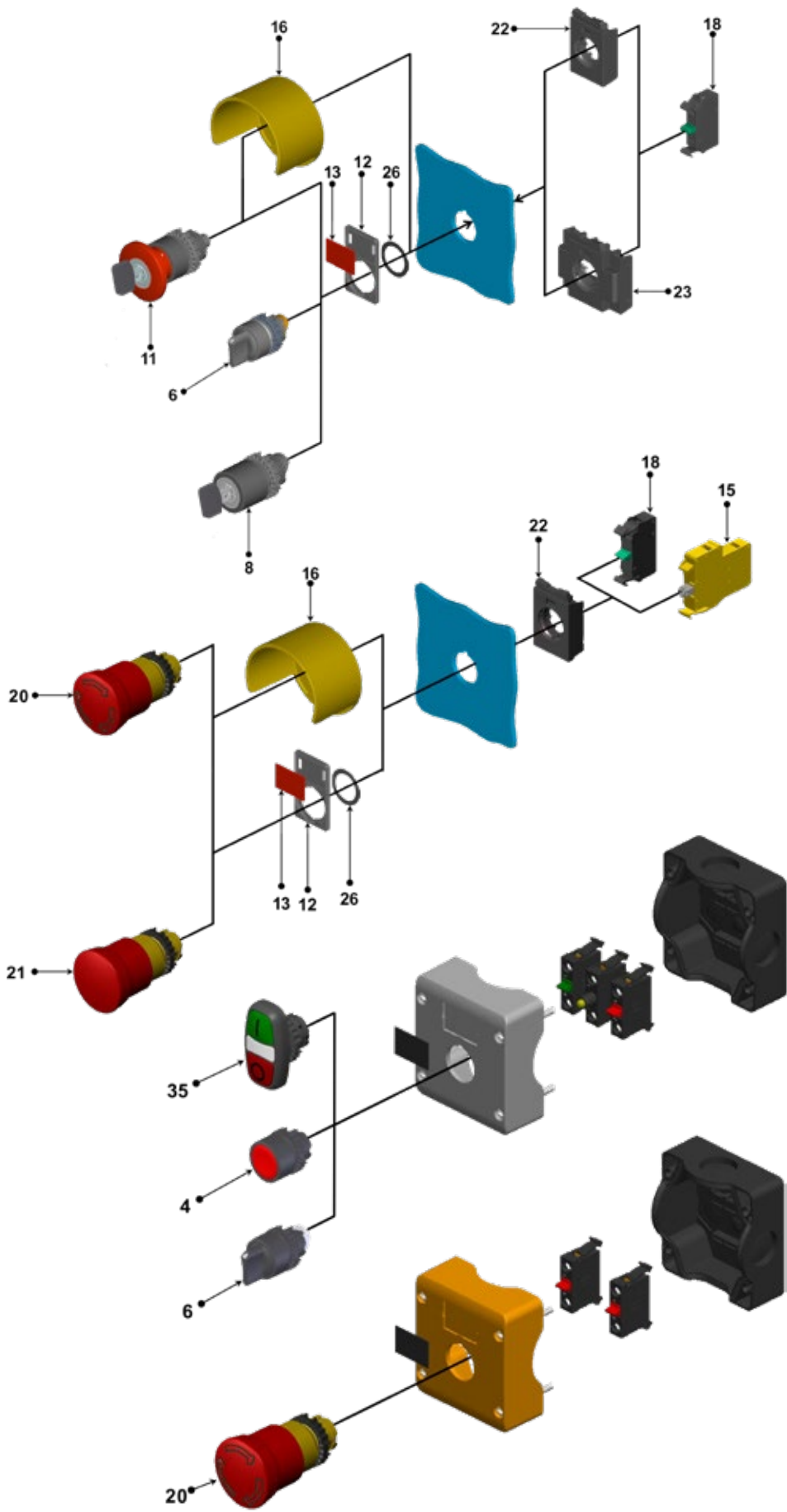


Mounting

Legend

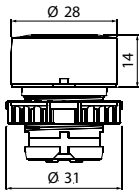
| Nº | Description |
|----|---|
| 1 | IP52 twin pushbutton |
| 2 | Protective silicone cap for twin pushbutton |
| 3 | Illuminated pushbutton |
| 4 | Flush head pushbutton |
| 5 | Protective silicone cap for flush head pushbutton |
| 6 | Switch/switch selector |
| 7 | Illuminated switch/switch selector |
| 8 | Switch key selector |
| 9 | Cap for LED module |
| 10 | Mushroom pushbutton |
| 11 | Mushroom pushbutton with key |
| 12 | Label plate |
| 13 | Marking plate (27 x 18 mm) |
| 14 | IP52 twin pushbutton |
| 15 | Mushroom pushbutton contact block with self-monitoring function |
| 16 | Protection against accidental pressing of the emergency STOP pushbutton |
| 17 | LED module |
| 18 | Contact block |
| 19 | Latch module |
| 20 | Emergency STOP mushroom pushbutton (turn to release) |
| 21 | Emergency STOP mushroom pushbutton (pull to release) |
| 22 | 3-module holder for contact blocks and LED modules |
| 23 | 5-module holder for contact blocks and LED modules |
| 24 | Extended head pushbutton, illuminated |
| 25 | Mushroom pushbutton, illuminated |
| 26 | Adaptor ring |
| 27 | Protective silicone cap for illuminated flush head and extended head pushbutton |
| 28 | Label plate for IP52 twin pushbutton |



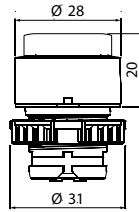


Dimensions, mounting

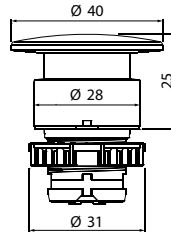
Non-illuminated flush head pushbutton



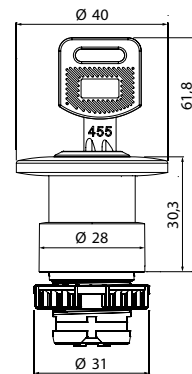
Non-illuminated extended head pushbutton



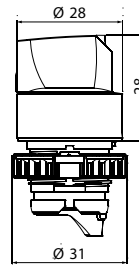
Mushroom pushbutton
Ø 40 mm (illuminated)



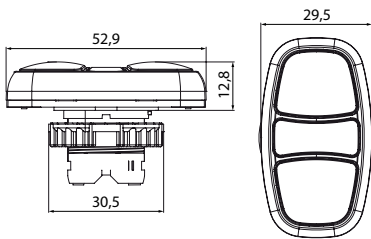
Mushroom pushbutton
Ø 40 mm (with key)



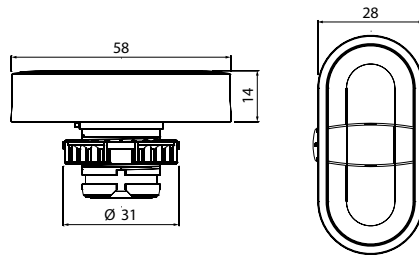
Non-illuminated two-position „0-1“ and three-position „1-0-2“ switch selector



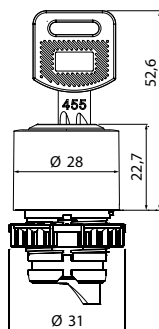
Twin pushbutton



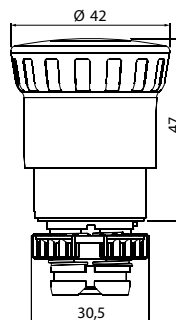
IP52 twin pushbutton



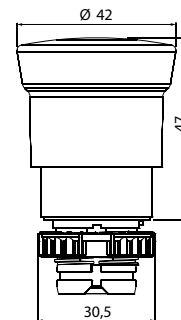
Two-position switch key selector
„0-1“



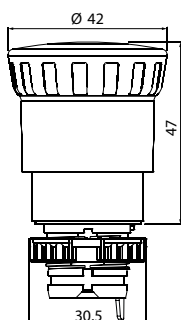
Emergency STOP mushroom pushbutton Ø 42 mm (turn to release)



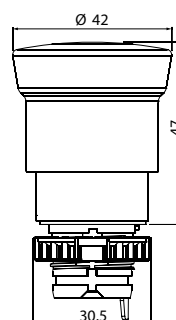
Emergency STOP mushroom pushbutton Ø 42 mm (pull to release)



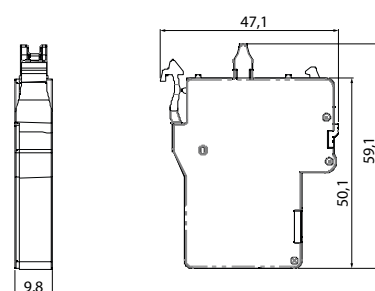
Emergency STOP mushroom pushbutton
Ø 42 mm, self-monitoring function
(turn to release)



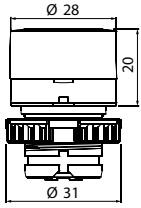
Emergency STOP mushroom pushbutton
Ø 42 mm, self-monitoring function
(pull to release)



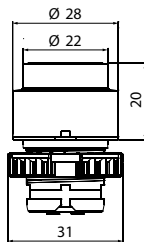
Contact block for Mushroom pushbutton
with self-monitoring function



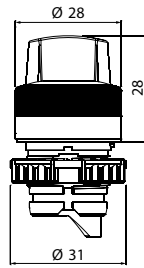
Illuminated flush head pushbutton



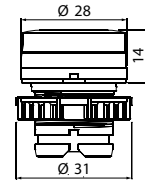
Illuminated extended head pushbutton



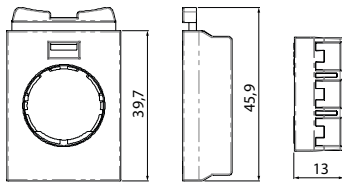
Illuminated two-position „0-1“ and three-position „1-0-2“ switch selector



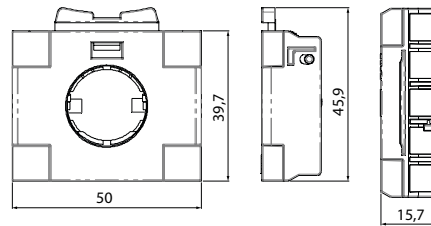
Cap for LED module



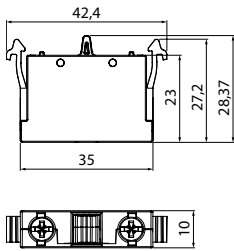
3-module holder for contact blocks and LED modules



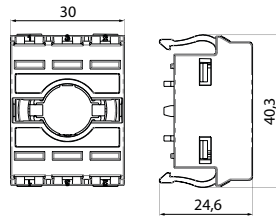
5-module holder for contact blocks and LED modules



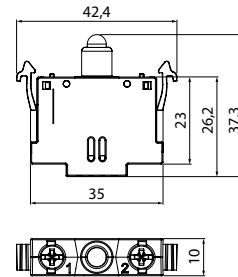
Contact block with screw terminals



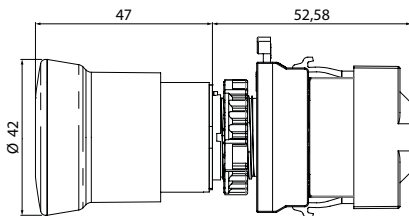
Latch module



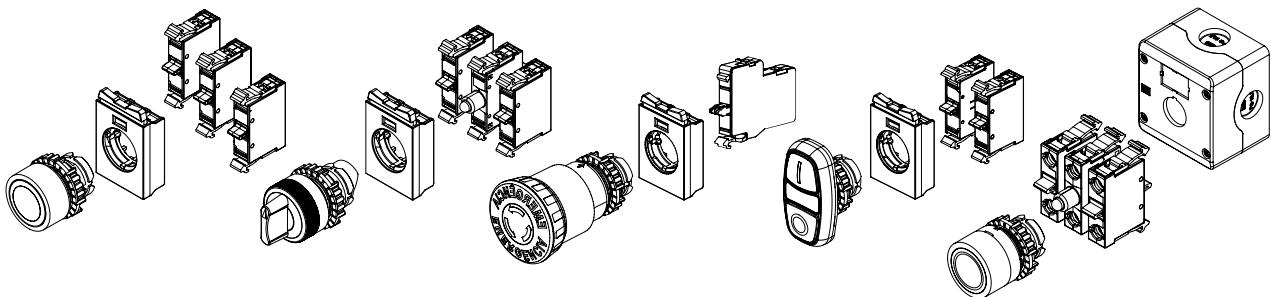
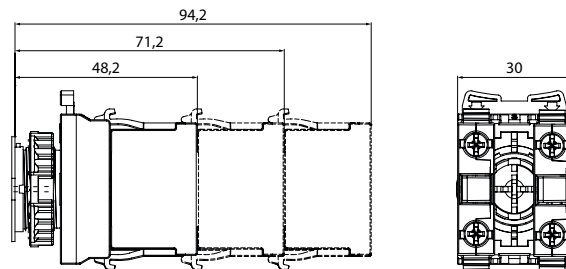
LED module

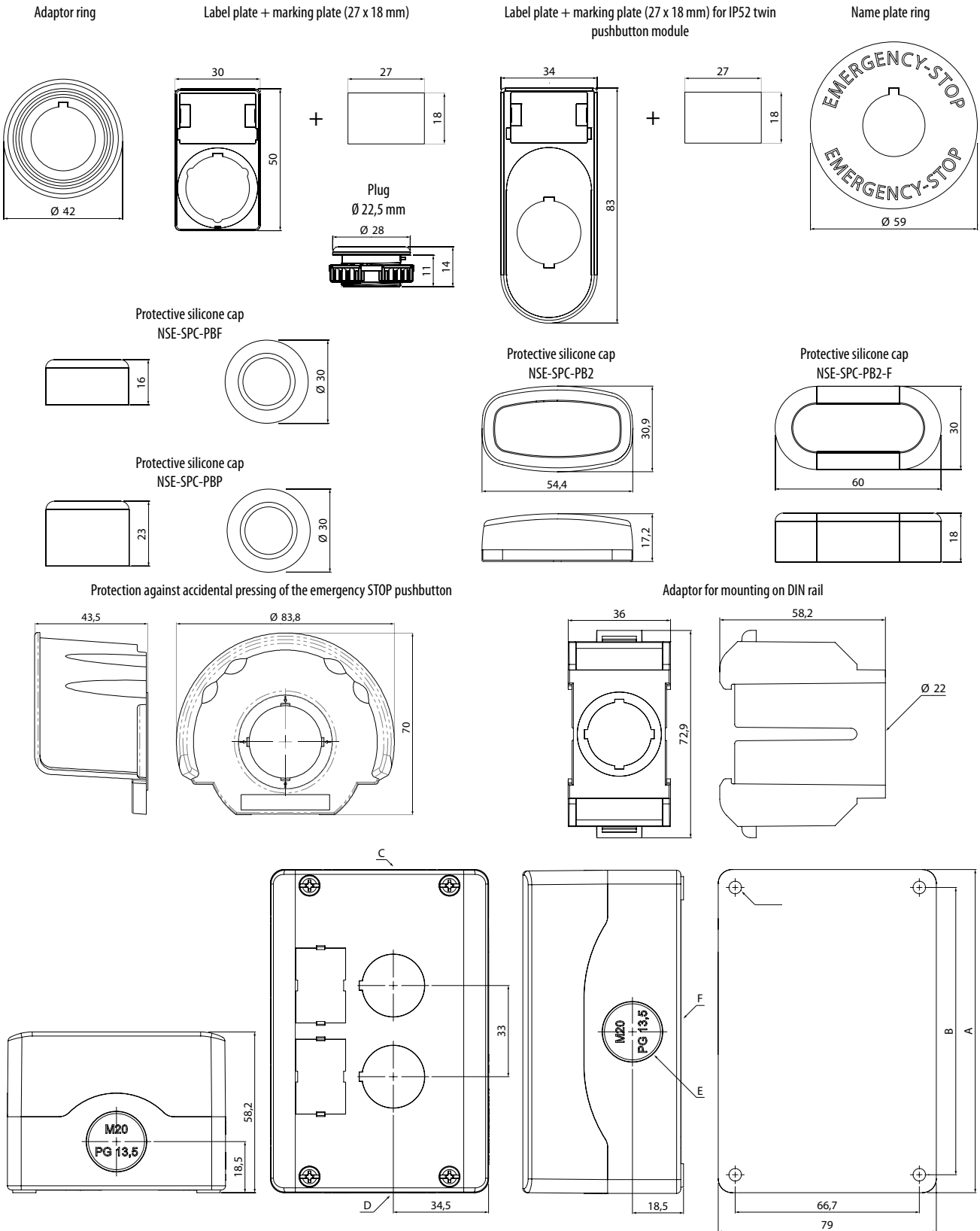


- Mushroom emergency pushbutton kit:
- Emergency STOP mushroom pushbutton
 - 3 modular contact block holder
 - Contact blocks
 - Module retainer



Installation of contact blocks 1, 2, 3 level





Enclosures

| No. of holes | A | B | Cable entry | | | |
|--------------|-----|------|-------------------------------|-------------------------------|-------------------------------|------------------|
| | | | C (bottom) | D (above) | E (sideways) | F (with base) |
| 1 | 74 | 66,7 | 1x $\text{Ø}20/\text{PG}13,5$ | 1x $\text{Ø}20/\text{PG}13,5$ | 1x $\text{Ø}20/\text{PG}13,5$ | 2x $\text{Ø}M16$ |
| 2 | 117 | 104 | 1x $\text{Ø}20/\text{PG}13,5$ | 1x $\text{Ø}20/\text{PG}13,5$ | 1x $\text{Ø}20/\text{PG}13,5$ | 2x $\text{Ø}M16$ |
| 3 | 150 | 137 | 1x $\text{Ø}20/\text{PG}13,5$ | 1x $\text{Ø}20/\text{PG}13,5$ | 2x $\text{Ø}20/\text{PG}13,5$ | 2x $\text{Ø}M16$ |
| 4 | 183 | 170 | 1x $\text{Ø}20/\text{PG}13,5$ | 1x $\text{Ø}20/\text{PG}13,5$ | 2x $\text{Ø}20/\text{PG}13,5$ | 2x $\text{Ø}M16$ |
| 6 | 249 | 236 | 1x $\text{Ø}20/\text{PG}13,5$ | 1x $\text{Ø}20/\text{PG}13,5$ | 2x $\text{Ø}20/\text{PG}13,5$ | 2x $\text{Ø}M16$ |



A series of horizontal blue lines spanning the width of the page, serving as a template for text or data entry.