

# Control and signalling devices

## Control devices for panel mounting

Ex e

8003/111-003 UL Art. No. 127183



PanSiG



- Flexible configuration thanks to pushbutton, mushroom push-button, mushroom stay-put button, mushroom stay-put button with key lock, key-operated button and key-operated switch
- Easy to install using a single hole
- Codable "latching", "spring return" and "key not removable" functions
- Spring clamp terminals with connection chamber

MY R. STAHL 8003A



R. STAHL Series 8003 switches and control buttons for panel mounting take on various switching functions in latching and spring return positions up to 6 A, which can be subsequently recoded. They are fully certified, explosion-protected equipment with an Ex e connection chamber. With the patented mounting mechanism, panel mounting with drilled holes or openings of 30.5 mm is quick and easy.

Compatible actuators are available for a comprehensive range of applications.

## Technical Data

### Explosion Protection

|                                 |   |
|---------------------------------|---|
| Area of application             | European Union (ATEX)<br>CE Code<br>IECEX<br>NEC®                                       |
| Application range (zones)       | 1, 2, 21, 22  |
| IECEX gas certificate           | IECEX PTB 06.0065X  |
| IECEX gas explosion protection  | Ex db eb IIC T6 Gb  |
| IECEX dust certificate          | IECEX PTB 06.0065X  |
| IECEX dust explosion protection | Ex tb IIIC T80 °C Db  |
| ATEX gas certificate            | PTB 02 ATEX 1057 X  |
| ATEX gas explosion protection   | ⊕ II 2 G Ex db eb IIC T6 Gb   |
| ATEX dust certificate           | PTB 02 ATEX 1057 X  |
| ATEX dust explosion protection  | ⊕ II 2 D Ex tb IIIC T80 °C Db   |
| Certificates                    | ATEX (PTB), Canada (UL), China (CQST), IECEX (PTB), Korea (KGS), USA (UL)               |
| Declaration of conformity       | ATEX (EUK), ATEX (Simple apparatus), China (CCC), Declaration of Conformity (ATEX)      |
| Notes                           | Product label may vary. Series devices are labelled with ATEX, IECEX, NEC® and CE Code. |

### Electrical Data

|   |                            |
|---|----------------------------|
| Rated operational voltage AC                                      | 500 V                      |
| Rated operational current   | 6 A                        |
| Switching capacity AC-12  | 500 V / 6 A / max. 3000 VA |
| Switching capacity AC-15  | 400 V / 6 A / max. 1250 VA |
| Switching capacity DC-13  | 110 V / 1 A / max. 110 W   |
| Switching capacity DC-13<SoftReturn/>2 contact elements in series | 60 V/6 A                   |

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### Ambient Conditions

|                          |                    |
|--------------------------|--------------------|
| Ambient temperature      | -20 °C ... 60 °C   |
| Ambient temperature      | -4 °F ... +140 °F  |
| Ambient temperature NEC® | -30 °C ... +60 °C  |
| Ambient temperature NEC® | -22 °F ... +140 °F |

### Mechanical Data

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Degree of protection (IP) (IEC 60529) | Reverse side IP65, front side IP66 |
| Enclosure material                    | Polyamide                          |
| Contact material                      | Silver-nickel                      |
| Silicone-free                         | Yes                                |
| Number of NCs                         | 1                                  |
| Number of NOs                         | 1                                  |
| Connection cross-section              | 0.75 ... 1.5 mm <sup>2</sup>       |
| Connection cross-section AWG          | 18 AWG ... 12 AWG                  |
| Depth of cut-out                      | 130 mm                             |
| Mounting depth in inches              | 5.12 in                            |
| Service life, min.                    | 10 <sup>5</sup> operating cycles   |
| Weight                                | 140 g                              |
| Weight                                | 0.31 lb                            |

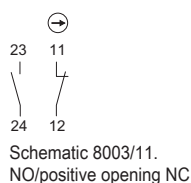
### Mounting / Installation

|                          |              |
|--------------------------|--------------|
| Tightening torque        | 3 N · m      |
| Tightening torque lbf in | 26.55 lbf in |

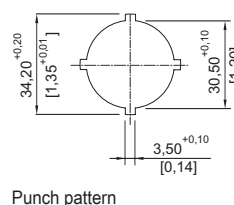
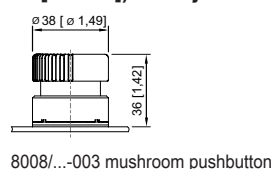
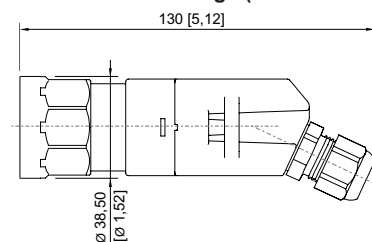
### Components

|              |                              |
|--------------|------------------------------|
| Actuator     | Mushroom pushbutton          |
| Entry 1      | 8161/7-M16-0902              |
| Entry 1 type | Polyamide cable gland, black |

### Technical Drawings – Subject to Alterations



### Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



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Ex e

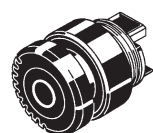
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Cut-out with/without additional designation plate

## Accessories

### Actuators



Mushroom pushbutton dia. 38 mm, black

Art. No.

155526

### Closing part



8602C3-733-B  
for closing unused holes in cover, dia. 30.5 mm, NBR

8602C3-733-S  
for closing unused holes in cover, dia. 30.5 mm, silicone

Art. No.

244306

244307

## Spare Parts

### Label holder



Label holder, size 1, without insert disc  
Labelling: 1-line  
can be installed in dia. 30.5 mm drilled holes for actuators

Art. No.

155632



Label holder, size 2, without insert disc  
Labelling: 1- or 2-line  
can be installed in dia. 30.5 mm drilled holes for actuators

Art. No.

155687



Label holder, size 3, without insert disc  
Labelling: 1-, 2- or 3-line  
can be installed in dia. 30.5 mm drilled holes for actuators

Art. No.

155844

### Designation plates for pushbuttons and selector switches



Colour: White  
Text: START

Art. No.

155889



Colour: Blue  
Text: RESET

Art. No.

155894




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|  |                              |        |
|--|------------------------------|--------|
|  | Colour: Green<br>Text: START | 155721 |
|  | Colour: Black<br>Text: Ab    | 155886 |
|  | Colour: Black<br>Text: Auf   | 155883 |

### Protective collar

Art. No.

|  |  |        |
|--|--|--------|
|  | 8602A0751 metal<br>for pushbutton/selector switch/mushroom stay-put button with key lock/mushroom stay-put button/mushroom pushbutton dia. 39<br>BG001, BG003, BG005, BG008, BG009, BG010, BG012 | 155326 |
|--|--|--------|

### Designation plates for pushbuttons and selector switches

Art. No.

|  |                                |        |
|--|--------------------------------|--------|
|  | Colour: Black<br>Symbol: Arrow | 155749 |
|  | Colour: Black<br>Symbol: Arrow | 155761 |
|  | Colour: Black<br>Text: Links   | 155827 |
|  | Colour: Black<br>Text: Rechts  | 155837 |
|  | Colour: Black<br>Text: Open    | 155868 |
|  | Colour: Black<br>Text: CLOSE   | 155878 |
|  | Colour: Black<br>Text: Zu      | 155874 |




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|  |                           |        |
|--|---------------------------|--------|
|  | Colour: Red<br>Text: OFF  | 155654 |
|  | Colour: Green<br>Text: ON | 155671 |
|  | Colour: Red<br>Text: AUS  | 155634 |

| Insert discs for label holder  |  | Art. No. |
|--|--|----------|
|  | One-line<br>Plain<br>Material: PVC<br>Colour: White<br>Self-adhesive | 238271   |

| Designation plates for pushbuttons and selector switches                           |                            | Art. No. |
|--|----------------------------|----------|
|  | Colour: Black<br>Text: AUS | 155806   |

| Insert discs for label holder  |  | Art. No. |
|--|--|----------|
|  | Two-line<br>Plain<br>Material: PVC<br>Colour: White<br>Self-adhesive | 238272   |

| Designation plates for pushbuttons and selector switches                           |                            | Art. No. |
|--|----------------------------|----------|
|  | Colour: Black<br>Text: EIN | 155862   |

| Insert discs for label holder  |  | Art. No. |
|--|--|----------|
|  | Three-line<br>Plain<br>Material: PVC<br>Colour: White<br>Self-adhesive | 238273   |

| Designation plates for pushbuttons and selector switches                           |                             | Art. No. |
|--|-----------------------------|----------|
|  | Colour: Black<br>Text: STOP | 155795   |


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|  |   |        |
|--|---|--------|
|    | Colour: Black<br>Text: I                  | 155846 |
|    | Colour: Green<br>Text: I                  | 155689 |
|    | Colour: White<br>Text: I                  | 155892 |
|    | Colour: Black<br>Text: II                 | 155854 |
|   | Colour: Green<br>Text: II                 | 155706 |
|  | Colour: Red<br>Text: O                    | 155596 |
|  | Colour: Black<br>Text: O                  | 155783 |
|  | Colour: Black<br>Text: I O                | 155771 |
|  | Colour: Blue<br>Blank disc without text   | 155911 |
|  | Colour: Yellow<br>Blank disc without text | 155914 |
|  | Colour: Red<br>Blank disc without text    | 155897 |
|  | Colour: Green<br>Blank disc without text  | 155901 |

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|  |  |        |
|--|--|--------|
|  | Colour: White<br>Blank disc without text | 155908 |
|  | Colour: Black<br>Blank disc without text | 155905 |

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.