



E4

- For installation in enclosure wall, enclosure cover, panels or control cabinets
- Installation using a single dia. 30 mm hole
- Beneficial LED technology: Extremely long service life, high luminance, low heat build-up
- Reliable explosion protection thanks to flameproof contact elements and lighting elements

MY R. STAHL 8018A



R. STAHL Series 8018 LED illuminated pushbuttons switch load, control and signal circuits and show command statuses via a light signal, the colour of which can be determined using the colour filter included in the delivery: Red, yellow, green, blue or white. The long-lasting LEDs ensure high luminance and minimal heat build-up. The buttons are supplied with a connection cable.

| | IECEx / ATEX | | | | | |
|-----------------|--------------|---|---|----|----|----|
| Zone | 0 | 1 | 2 | 20 | 21 | 22 |
| Installation in | • | • | | • | • | |

| | NEC® 500 CE Code Appendix J | | | | | |
|-----------------|--------------------------------|----------|----------|-----------|-----------|-----------|
| Division | Class I | Class II | Class II | Class III | Class III | Class III |
| Installation in | 1 | 2 | 1 | 2 | 1 | 2 |

| | CE Code Section 18 | | | | | |
|-----------------|--------------------|---|---|----------|----|----|
| | NEC® 505 | | | NEC® 506 | | |
| Zone | 0 | 1 | 2 | 20 | 21 | 22 |
| Installation in | | | • | | | |

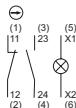
| Selection Table | | | | | |
|----------------------------|-------------|---------------------------------|--|--|----------|
| Product variant | | LED illuminated pushbutton Ex e | | | |
| Contact material | Contacts | Product Type | | | Art. No. |
| Silver-nickel | 1 NC + 1 NO | 8018/3113-al-6 UL | | | 129769 |
| | 2 NC | 8018/3123-al-6 UL | | | 129777 |
| | 2 NO | 8018/3133-al-6 UL | | | 129784 |
| Silver-nickel, gold-plated | 1 NC + 1 NO | 8018/3113-al-6 UL | | | 278907 |
| Product variant | | LED illuminated pushbutton Ex i | | | |
| Contact material | Contacts | Product Type | | | Art. No. |
| Silver-nickel, gold-plated | 1 NC + 1 NO | 8018/3213-al-6 UL | | | 210174 |
| | 2 NC | 8018/3223-al-6 UL | | | 210175 |
| | 2 NO | 8018/3233-al-6 UL | | | 210176 |

The red, yellow, green, blue and white colour filters are included in the packaging.

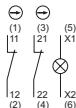
| Technical Data | | |
|---------------------------------|---|--|
| Variant | LED illuminated pushbutton Ex e | LED illuminated pushbutton Ex i |
| Explosion Protection | | |
| IECEx gas explosion protection | Ex db mb IIC T6 Gb | Ex db mb ia IIC T6 Gb |
| IECEx dust explosion protection | Ex tb IIIC T80 °C Db | Ex tb IIIC T80 °C Db |
| ATEX gas explosion protection | Ex II 2 G Ex db mb IIC T6 Gb | Ex II 2 G Ex db mb ia IIC T6 Gb |
| ATEX dust explosion protection | Ex II 2 D Ex tb IIIC T80 °C Db | Ex II 2 D Ex tb IIIC T80 °C Db |
| Certificates | ATEX (PTB), Canada (UL), China (CQST), IECEx (PTB), USA (UL) | ATEX (PTB), Canada (UL), China (CQST), IECEx (PTB), USA (UL) |
| Declaration of conformity | ATEX (EUK), China (CCC) | ATEX (EUK), China (CCC) |
| Notes | Product label may vary. Series devices are labelled with ATEX, IECEx, NEC® and CE Code. | |

| Technical Data | | |
|--|---|---|
| Variant | LED illuminated pushbutton Ex e | LED illuminated pushbutton Ex i |
| Electrical Data | | |
| AC rated operational voltage | 270 V | |
| DC rated operational voltage | | 30 V |
| Rated operational voltage, indicator lamp part | 12 (-10%) to 254 (+6%) V AC/DC | $U_i = 10.8$ to 28 V DC |
| Rated operational current | 6 A | 100 mA |
| Rated operational current, indicator lamp part | 0.014 A at 24 V DC | $I_i = 150$ mA |
| Rated operational power | 1 W | 1 W |
| Frequency | 0 ... 60 Hz | |
| Electrical service life | 10 ⁵ lighting hours | 10 ⁵ lighting hours |
| 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 | |
| Ambient Conditions | | |
| Ambient temperature | -30 °C ... +60 °C | -30 °C ... +60 °C |
| Ambient temperature | -22 °F ... +140 °F | -22 °F ... +140 °F |
| Ambient temperature NEC® | -30 °C ... +60 °C | -30 °C ... +60 °C |
| Ambient temperature NEC® | -22 °F ... +140 °F | -22 °F ... +140 °F |
| Lighting Data | | |
| Lamp | White LED | White LED |
| Luminous colour | White Blue Green Yellow Red | White Blue Green Yellow Red |
| Mechanical Data | | |
| Enclosure material | Polyamide | Polyamide |
| Silicone-free | Yes | Yes |
| Conductor length | 6 m | 6 m |
| Conductor length, inches | 236 in | 236 in |
| Mounting depth | 104.5 mm | 104.5 mm |
| Mounting depth in inches | 4.11 in | 4.11 in |

Technical Drawings – Subject to Alterations



Schematic 8018/3.13
The numbers in brackets correspond to the core marking



Schematic 8018/3.23
The numbers in brackets correspond to the core marking



Schematic 8018/3.33
The numbers in brackets correspond to the core marking

| Accessories | | | |
|-------------|--|----------|--------|
| Figure | Description | Art. No. | Weight |
| Actuator | for illuminated pushbutton (spring return) | 155163 | 19 g |

LED illuminated pushbutton for panel mounting

Series 8018 for ATEX/IECEx and NEC®/CE Code applications

STAHL

E4

| Accessories | | Art. No. | Weight |
|---|---|------------------|--------------|
| Figure | Description | | |
| 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 | 244306 244307 | 25 g 25 g |

| Spare Parts | | Art. No. | Weight |
|---|--|--|--|
| Figure | Description | | |
| Colour filter | | | |
|  | Colour filter for illuminated pushbutton 8018, all colours for white illuminated pushbutton for red illuminated pushbutton for yellow illuminated pushbutton for green illuminated pushbutton for blue illuminated pushbutton | 155461 155877 155882 155885 155888 155891 | 1 g 1 g 1 g 1 g 1 g 1 g |

