

LED Illuminated Pushbutton for Panel Mounting

Series 8018

PanSiG



www.stahl.de



- > For panel mounting
- > With integrated LED
 - High luminance
 - Low heat built-up
 - Prolonged service life
- > Spring-return version
- > 2 contact elements
 - NC / NO
 - NC / NC
 - NO / NO
- > Colour filters red, yellow, green, blue and white are included in the delivery
- > With connecting cable



04786E00

E4

The LED illuminated pushbuttons Series 8018 are explosion-protected electric devices suitable for the installation in enclosure walls and covers of electric devices, switch panels and control desks. They are used to switch load, control and signal circuits and signal command modes by lighting up or going out.

The devices consist of a main part with two flameproof encapsulated contacts, an LED indicating lamp unit and a front element for operation. The LED illuminated pushbutton in combination with the actuator attachment Series 8602 is designed for D 30 single hole installation according to EN 50007.

		ATEX / IECEx							NEC 505			NEC 506					NEC 500						
		0	1	2	20	21	22	Zone		Class I			Class I			Division		Class I		Class II		Class III	
Zone		0	1	2	20	21	22	Zone	0	1	2	20	21	22	Division	1	2	1	2	1	2		
For use			x	x		x	x	For use in			x				For use in		x						

WebCode 8018A

LED Illuminated Pushbutton for Panel Mounting

Series 8018



Selection Table

Version	Description	Order number	Weight kg
 <p>LED illuminated pushbutton Series 8018</p>	with flexible lead 6 m		
	Contacts 1 NC + 1 NO, Silver-nickel	8018/3113-al-6	0.740
	Contacts 2 NC, Silver-nickel	8018/3123-al-6	0.740
	Contacts 2 NO, Silver-nickel	8018/3133-al-6	0.740
LED illuminated pushbutton Ex i version Series 8018	Contacts 1 NC + 1 NO, Silver-nickel, gold-plated	8018/3213-al-6	0.740
	Contacts 2 NC, Silver-nickel, gold-plated	8018/3223-al-6	0.740
	Contacts 2 NO, Silver-nickel, gold-plated	8018/3233-al-6	0.740

Note The colour filters red, yellow, green, blue, white are enclosed in the delivery.

Explosion Protection

Global (IECEx)

Gas and dust	IECEx PTB 07.0011X Ex e: Ex dm IIC T6 Ex i: Ex dm ia IIC T6 Ex tD A21 IP65 T80°C
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Europe (ATEX)

Gas and dust	PTB 02 ATEX 2129 X ⊕ II 2 G Ex d mb IIC T6 ⊕ II 2 D Ex tD A21 IP65 T80°C
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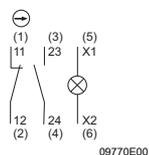
Certifications and certificates

Certificates	IECEx, ATEX, India (PESO), Canada (UL), Serbia (SRPS), USA (UL)
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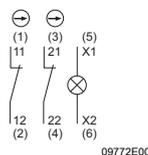
Technical Data

Electrical data

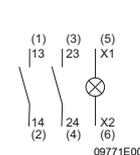
Rated operational voltage	Ex e: max. 270 V, Ex i: $U_i \leq 30$ V DC
Contact	
Indicating lamp unit	Ex e: 12 (- 10%) ... 254 (+ 6%) V AC/DC Ex i: $U_i = 10.8 \dots 28$ V DC
Rated operational current	
Contact	Ex e: max. 6 A, Ex i: $I_i \leq 100$ mA
Indicating lamp unit	Ex e: 0.014 A bei 24 V DC, Ex i: $I_i = 150$ mA
Frequency	0 ... 60 Hz
Rated operational power	0.6 W
Schematic	



8018/3113



8018/3123



8018/3133

Switching capacity

Service category	AC-15	AC-12	DC-13
	270 V	270 V	110 V
	max. 6 A	max. 6 A	max. 1 A
	max. 1250 VA	max. 3000 VA	max. 110 W
Rated operating characteristics referring to service category			
Min. voltage*	12 V AC / DC		
Min. current*	50 mA		
	* reference values dependent on conditions of use		

Min. voltage*	12 V AC / DC
Min. current*	50 mA

* Reference values dependent on conditions of use

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Technical Data

Ambient conditions	
Ambient temperature	-30 ... +55 °C
Mechanical data	
Degree of protection	IP66 (front side) IP64 (rear side of the device) acc. to IEC/EN 60529
Material	
Enclosure	Polyamide
Colour filter	Polyamide
Contact material	
Standard	Silver-nickel
Special	Silver-nickel, gold-plated
Service life	
Contact element	10 ⁶ operations
Indicating lamp unit	10 ⁵ operating hours
Indicating lamp	
Lamps	LED white
Colours	red, yellow, green, blue, white via colour filter (included in the delivery)
Mounting / Installation	
Connection	Cable H05 6 x 0.75 mm ² , 6 poles
Cable length	6 m (others lengths on request)

Accessories and Spare Parts

Designation	Figure	Description	Art. no.	Weight kg
Actuator insert	 05044E00	for illuminated pushbuttons (spring-return)	155163	0.019
Colour filter	 05358E00	for illuminated pushbuttons		
		white	155877	0.001
		red	155882	0.001
		yellow	155885	0.001
		green	155888	0.001
		blue	155891	0.001
Closing part	 05647E00	for closing of unused mounting holes \varnothing 30.5 mm	155329	0.016

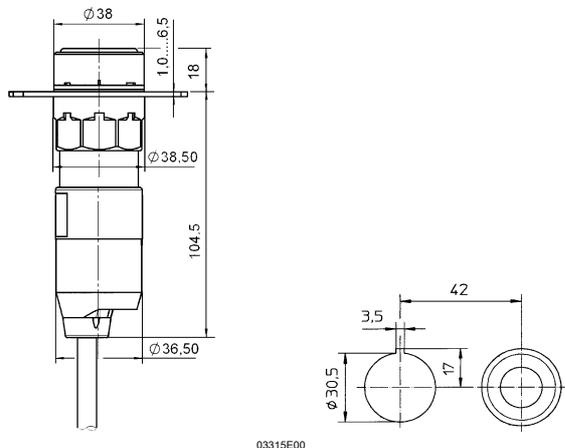
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Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



03315E00

04488E00

LED illuminated pushbutton
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Drilling pattern:
for aligning several devices diameter 38 mm, in a panel

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.