

Illuminated Pushbuttons

Series 8082/8010

STAHL



- > Control and indicator function in one location
- > Switching and indicator functions work independently of each other
- > Indicating lamp with white LED
 - High luminance
 - Low heat build-up
 - Very long life
 - Maintenance-free
- > Colour filters in colours red, yellow, green, blue and clear
- > Rated operational voltage 12 (- 10 %) ... 254 (+ 6 %) V AC / DC

E4



03130E00

The illuminated pushbuttons Series 8082/8010 allow a control and monitoring function to be combined below one actuator. This is achieved by combining the contact elements 8085, an indicating lamp 8010 and an illuminated pushbutton 8602 (spring return). The required colour is achieved by colour filtering. The corresponding easy snap-in colour filters are available in the colours red, yellow, green, blue and clear.

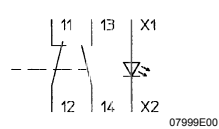
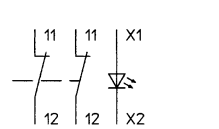
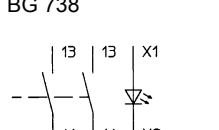
	ATEX					
Zone	0	1	2	20	21	22
For use in		x	x			

WebCode 8082C

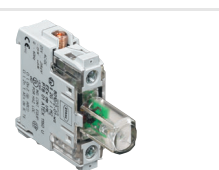
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Available Combinations for Illuminated Pushbuttons

 07999E00 BG 737	1 x indicating lamp 8010 1 x contact element 8082/1-1-.. (NC) 1 x contact element 8082/1-2-.. (NO)
 08000E00 BG 738	1 x indicating lamp 8010 2 x contact element 8082/1-1-.. (NC)
 08021E00 BG 739	1 x indicating lamp 8010 2 x contact element 8082/1-2-.. (NO)

Selection Table

Version	Description	Order number	Weight kg
 02057E00 8010 LED indicating lamp	Ex e version: LED white	8010/2-01-ws	0.035
	Ex i version: LED white	8010/3-02-ws	0.034
 10027E00 8082 contact element	Screw terminal, 1 NC, silver/nickel	8082/1-1-00	0.025
	Screw terminal, 1 NC, gold-plated	8082/1-1-10	0.025
	Screw terminal, 1 NO, silver/nickel	8082/1-2-00	0.030
	Screw terminal, 1 NO, gold-plated	8082/1-2-10	0.025
 01819E00 8602 Actuator for illuminated pushbutton	spring return	155454	0.053
 09991E00 Colour filter	red, yellow, green, blue, clear	155461	0.001

Attention: Illuminated pushbuttons must not be used for EMERGENCY-STOP functions.

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Explosion Protection

Marking

Europe (ATEX)  II 2 G Ex de IIC T6

Certificates

Europe (ATEX) Contact element: PTB 00 ATEX 1031 U
Indicating lamp: PTB 01 ATEX 1160 U
Actuator: PTB 01 ATEX 1129 U

Technical Data

Ambient conditions

Ambient temperature - 20 ... + 40 °C

Technical Data

Device version

Contact element 8082

Electrical data	
Rated operational voltage	max. 550 V
Rated operational current	AC-12: max. 10 A
Mechanical data	
Enclosure material	Polyamide
Contact material	Silver-nickel / gold-plated
Connection cross-section	2.5 mm ² fine-stranded/single-wired

Technical Data

Device version

LED indicating lamp 8010

Electrical data	
Rated operational voltage	Ex e: 12 (- 10 %) ... 254 (+ 6 %) V AC / DC Ex i: 10.8 ... 30 V
Safety-specific maximum values (Ex i)	Ui ≤ 30 V, Ii ≤ 150 mA, Pi ≤ 1 W, inductance Li and capacity Ci negligible
Frequency range	0 ... 60 Hz
Electrical life	10 ⁵ lighting hours
Luminous characteristics	
Lamps	white LED
Colour	red, yellow, green, blue, white; via coloured lenses (not included in delivery)
Mechanical data	
Enclosure material	Polyamide

Technical Data

Device version

Actuator for illuminated pushbutton 8602

Mechanical Data	
Degree of Protection	IP66
Material	Polyamide
Impact strength	≥ 7 J
Seals	NBR

E4

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Designation	Illustration	Description	Order number	Weight kg	
Additional identification plate	 05543E00	Label mount, size 1, without symbol label Text: 1 line	155632	0.002	
		Label mount, size 2, without symbol label Text: 1 or 2 lines	155687	0.002	
		Label mount, size 3, without symbol label Text: 1, 2 or 3 lines	155844	0.002	
		for actuator inserts to fit standard Ø 30.5 mm holes			
		Symbol labels:	without text		
	with text; please specify text				
	HAND - 0 - AUTO	I - 0 - II			
	OFF - • - ON	0 - I - II			
	0 - I	0 - Operation - I			
	I - II	0 - • - I			

Technical drawings of the BG 737, BG 738, and BG 739 illuminated pushbuttons. The drawings include side views, front views, and a punch diagram. Dimensions are given in millimeters.

Side view dimensions: 66 mm (total height), 48 mm (height to top of actuator), 42 mm (width).

Front view dimensions: 53 mm (width).

Punch diagram dimensions: 30.5 ± 0.1 mm (actuator diameter), 34.2 ± 0.2 mm (actuator height), 3.5 ± 0.1 mm (base diameter).

Actuator for illuminated pushbutton

Dimensions [mm]	
h	18
d1	38
d2	20