



01713E00

### Diode Indicating Lamps for Panel Mounting Series 8013

- Explosion protection to
  - CENELEC
  - IEC
- For use in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- Colours:  
red, yellow, green, blue, white
- High luminance
- Low heat built-up
- Very long life
- Cage clamp  
in the connection area



STAHL






The indicating lamps Series 8013 signal command modes in load, control and signal circuits by lighting up or going out. They are designed for single-hole fixing D 30 to EN 50 007 in combination with indicating lamp inserts Series 8602.

Indicating lamp Types 8013/..1 are complete explosion-protected electrical devices. They are suitable for mounting in panels, covers of electrical devices and switch-boards. Types 8013/..2 are incomplete explosion protected devices and only suitable for mounting in enclosures of protection „Increased safety“ acc. to EN 50 019.





Indicating lamps type 8013/..2. are „intrinsically safe“ and are used in intrinsically safe circuits.

# Zones 1 & 2, 21 & 22

Selection table				
Version	Description	Ordering code	Weight kg	
 8013/3.1 with connection area <small>01712E00</small>	connection: cage clamp	Ex e	<b>8013/311-al</b>	0,130
		Ex i	<b>8013/321-al</b>	0,140
 8013/3.2 without connection area <small>04787E00</small>	connection: cage clamp	Ex e	<b>8013/312-al</b>	0,100
		Ex i	<b>8013/322-al</b>	0,110
Note		The coloured caps red, yellow, green, blue, white added in packing. Diode indicating lamp with installed connection cable on request		

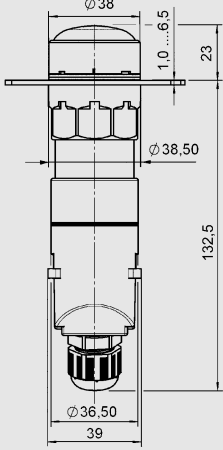
Technical Data	
Explosion protection	
Gas explosion protection	Ex e 8013/311  II 2 G EEx mde IIC T6 8013/312  II 2 G EEx mde IIC Ex i 8013/321  II 2 G EEx md ia IIC T6 8013/322  II 2 G EEx md ia IIC
Dust explosion protection	 II 2 D IP 66 T80 °C
Certificates	Ex e 8013/3.1 PTB 02 ATEX 2131 X Ex i 8013/3.2 PTB 02 ATEX 2130 U
Other certificates	FM (USA), CSA (Canada)
Ambient temperature	- 40 °C ... + 50 °C
Rated voltage	Ex e 12 V - 10 % ... 254 V + 6 % AC / DC Ex i 10,8 V ... 28 V DC
Rated current	0,014 A at 24 V DC
Frequency	0 Hz ... 60 Hz
Rated power	0.6 W
Colours	red, yellow, green, blue, white colour filtering via coloured insert caps
Flexible lead	Connection cross-section: 8013/3.1 0,75 mm <sup>2</sup> ... 1,5 mm <sup>2</sup> 8013/3.2 0,50 mm <sup>2</sup> ... 2,5 mm <sup>2</sup>
Cable entry	Type 8013/3.1: M16 x 1.5 (∅ 4 - 9 mm)
Degree of protection	Degree of protection IEC / CEI 60 529 8013/3.1 IP 65 8013/3.2 IP 65 / IP 20 (connections)
Electrical life	10 <sup>5</sup> output hours
Material	Polyamide
Safety-specific maximum values	<b>Additional electrical data for intrinsically safe version type 8013/3.2</b> U <sub>i</sub> 28 V I <sub>i</sub> 150 mA P <sub>i</sub> 1 W
Binary out put	Inductance L <sub>i</sub> and Capacitance C <sub>i</sub> negligible STAHL 9175/10-16-11 one duct STAHL 9175/20-16-11 two duct
Safety barrier	STAHL 9001/01-280-110-101



Accessories and spare parts										
Designation	Illustration	Description	Ordering code	Weight kg						
Additional symbol disc		Label mount, size 1, without symbol label Designation: 1-line	<b>8602904800</b>	0,002						
		Label mount, size 2, without symbol label Designation: 1- or 2-lines	<b>8602907800</b>	0,003						
		Label mount, size 3, without symbol label Designation: 1-, 2- or 3-lines	<b>8602920800</b>	0,004						
		for actuators to fit standard $\varnothing$ 30.5 mm holes with text, please specify text: Text: <table border="1" data-bbox="571 689 1018 840"> <tr> <td>HAND - 0 - AUTO</td> <td>I - 0 - II</td> </tr> <tr> <td>OFF - • - ON</td> <td>0 - I - II</td> </tr> <tr> <td>0 - I</td> <td>0 - Operation - I</td> </tr> <tr> <td>I - II</td> <td>0 - • - I</td> </tr> </table> additional labels: plain	HAND - 0 - AUTO	I - 0 - II	OFF - • - ON	0 - I - II	0 - I	0 - Operation - I	I - II	0 - • - I
HAND - 0 - AUTO	I - 0 - II									
OFF - • - ON	0 - I - II									
0 - I	0 - Operation - I									
I - II	0 - • - I									
Calotte		round, $\varnothing$ 30,5 mm, with clear lens	<b>8602912580</b>	0,015						
Cap		red	<b>8602920580</b>	0,001						
		yellow	<b>8602919580</b>	0,001						
		green	<b>8602921580</b>	0,001						
		blue	<b>8602922580</b>	0,001						
		white	<b>8602918580</b>	0,001						
		all colours	<b>8602806580</b>	0,005						
Closure part		to close not used mounting holes $\varnothing$ 30,5 mm	<b>8602801587</b>	0,006						

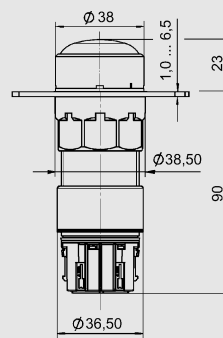


Dimension drawings (all dimensions in mm) - subject to alterations



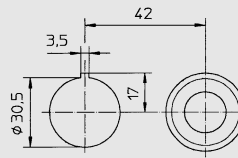
**8013/3.1**  
Indicating lamp with connection area

03314E00



**8013/3.2**  
Indicating lamp without connection area

04825E00



Cut-out for aligning several devices  
 $\varnothing$  38 mm in a panel

04488E00

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