LED Indicating Lamps for Panel Mounting
Series 8013

PanSiC

STAHL

> For panel mounting
> With integrated LED
  – High luminance
  – Low heat built-up
  – Prolonged service life
> Colours:
  red, yellow, green, blue, white
> Connection by means
  of spring clamp terminals
  or plug-in connection
  with connection line
  – with terminal compartment
  – without terminal compartment

04788E00

The LED diode indicating lamps of the 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 according to EN 50007 in combination with indicating lamp inserts Series 8602. The version 8013/..1 is a complete, certified explosion-protected device suitable for the installation in enclosure walls or covers of electric devices, switch panels or control desks.
The versions 8013/..2 are incomplete, explosion-protected devices suitable for the installation in enclosures of the protection type "Increased safety" according to IEC/EN 60079-7.
The LED diode indicating lamps Series 8013/.2. are used in intrinsically safe circuits.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Ex e / Ex i with connection chamber: For use in		x	x		x	x
Ex e / Ex i without connection chamber: For use in		x	x			

	NEC 505 Class I			NEC 506				NEC 500 Class I		Class II		Class III	
Zone	0	1	2	20	21	22	Division	1	2	1	2	1	2
Ex e: For use in		x	x				Ex e: For use in		x				
Ex i: For use in	x	x	x				Ex i: For use in	x	x				

WebCode   8013A

Selection Table

Version	Description			Order number	Weight kg
01712E00 LED indicating lamps Series 8013 with connection chamber	Connection: spring clamp terminal		Ex dem	8013/311-al	0.130
			Ex i	8013/321-al	0.140
	Connection: plug-in connection and connection line 6 m		Ex dem	8013/313-al-6	0.625
			Ex i	8013/323-al-6	0.635
04787E00 LED indicating lamps Series 8013 without connection chamber	Connection: spring clamp terminal		Ex dem	8013/312-al	0.100
			Ex i	8013/322-al	0.110
Note	The coloured caps red, yellow, green, blue, white are enclosed in the delivery. Diode indicating lamp with installed connecting cable on request				

Explosion Protection

Global (IECEx)

Gas and dust	8013/3.1	IECEx PTB 07.0010 X
	8013/3.2	IECEx PTB 07.0012 U
	8013/3.3	IECEx PTB 07.0010 X

	Ex e	8013/311	Ex dem IIC T6
		8013/312	Ex dem IIC
		8013/313	Ex dem IIC T6
	Ex i	8013/321	Ex dm ia IIC T6
		8013/322	Ex dm ia IIC
		8013/323	Ex dm ia IIC T6
	8013/3.1 8013/3.3	Ex tD A21 IP65 T80°C

Europe (ATEX)

| Gas and dust | 8013/3.1 | PTB 02 ATEX 2131 X |
| | 8013/3.2 | PTB 02 ATEX 2130 U |

	Ex e	8013/311	Ⓔ II 2 G Ex de mb IIC T6
		8013/312	Ⓔ II 2 G Ex de mb IIC
	Ex i	8013/321	Ⓔ II 2 G Ex d mb ia IIC T6
		8013/322	Ⓔ II 2 G Ex d mb ia IIC
	8013/3.1 8013/3.3	Ⓔ II 2 D Ex tD A21 IP65 T80°C

Certificates

| Certificates | IECEx, ATEX, India (PESO), Canada (CSA), Kazakhstan (TR), Russia (TR), Ukraine (TR), USA (CSA, UL), Belarus (TR) |

Technical Data

Electrical data

Rated operational voltage	Ex e	12 (- 10%) ... 254 (+ 6%) V AC / DC
	Ex i	10.8 ... 28 V DC
Rated operational current	0.014 A at 24 V DC
Frequency	0 ... 60 Hz
Rated operational power	0.6 W
Electrical life	10^5 operating hours

Additional electrical data for intrinsically safe version Type 8013/3.2

Safety-specific maximum values (Ex i)	$U_i \leq 28$ V, $I_i \leq 150$ mA, $P_i = 1$ W, inductance L_i and capacity C_i negligible
Recommended binary output	STAHL 9175/10-16-11 one duct
	STAHL 9175/20-16-11 two ducts
Recommended safety barrier	STAHL 9001/01-280-110-101

Technical Data

Ambient conditions	
Ambient temperature	-30 ... + 55 °C

Mechanical data	
Degree of protection	according to IEC/EN 60529
	8013/3.1 IP65 (front side IP66)
	8013/3.2 IP65 (front side IP66, connections IP20)
Material	
Enclosure	Polyamide
Calottes	Polyamide
Insert caps	Polyamide
Indicating lamp	
Lamps	LED white
Colours	red, yellow, green, blue, white, by means of coloured calotte insert caps
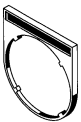
Mounting / installation	
Cable entry	8013/3.1 M16 x 1,5 ($\varnothing$ 4 ... 9 mm)
	8013/3.2
Connection type	Connection cross-section:
	8013/3.1 0.75 ... 1.5 mm^2
	8013/3.2 0.50 ... 2.5 mm^2

E4

Accessories and spare parts

Designation	Figure	Description	Art. no.	Weight kg
Additional front label	05543E00	Label mount, size 1, without symbol label Text: 1 line	155632	0.001
		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 actuators to fit $\varnothing$ 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 - Betrieb - I I - II 0 - • - I		0.000
Calotte	05038E00	round, $\varnothing$ 30.5 mm, with transparent lens	155759	0.008
Insert cap		red	155842	0.003
		yellow	155834	0.003
		green	155852	0.003
		blue	155860	0.003
		white	155824	0.003
		all colours	155447	0.003
Closing part	05647E00	for closing of unused mounting holes $\varnothing$ 30.5 mm	155329	0.016

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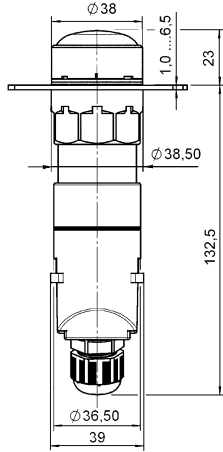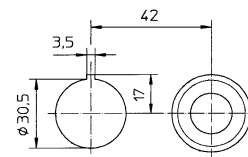

03314E00

8013/3.1
Indicating lamp with
terminal compartment
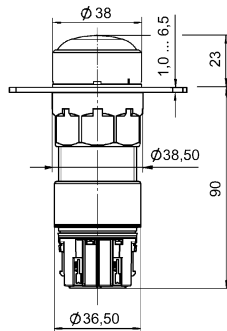
04825E00

8013/3.2
Indicating lamp without
terminal compartment

04488E00

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