- Advantageous LED technology: Extremely long service life, high luminance, low heat build-up
- For installation in enclosure walls, device covers, panels or control cabinets
- Version with spring clamp terminal with connection enclosure or version with prefabricated connection line and connection enclosure available

WebCode 8013B

Ex

R. STAHL Series 8013 LED indicating lamps show command statuses via a light signal, the colour of which you can determine using the colour filter included in the delivery: Red, yellow, green, blue or white. The long-life LEDs provide high luminance and low heat build-up. Versions with spring clamp terminal with connection enclosure and versions with prefabricated connection line and connection enclosure are available.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		●	●		●	●

Selection Table

Product variant		Ex d e					
Connection	Conductor length	Conductor length, inches	Connection cross-section	Connection cross-section AWG	Product Type	Art. No.	Weight
Plug-in connection, connection cable	3 m	118.11 in	0,75 mm²	–	8013/313-al-3	269755	625 g
	6 m	236.22 in	0,75 mm²	–	8013/313-al-6	269752	625 g
	15 m	590.55 in	0,75 mm²	–	8013/313-al-15	269754	625 g
Spring terminal connection	–	–	0.75 ... 1.5 mm²	18 AWG ... 12 AWG	8013/311-al	269658	130 g
	–	–	0.5 ... 2.5 mm²	18 AWG ... 12 AWG	8013/312-al	269660	140 g
Product variant		Ex i					
Connection	Conductor length	Conductor length, inches	Connection cross-section	Connection cross-section AWG	Product Type	Art. No.	Weight
Plug-in connection, connection cable	6 m	236.22 in	0,75 mm²	–	8013/323-al-6	269753	625 g
Spring terminal connection	–	–	0.75 ... 1.5 mm²	18 AWG ... 12 AWG	8013/321-al	269659	100 g
	–	–	0.5 ... 2.5 mm²	18 AWG ... 12 AWG	8013/322-al	269751	110 g

The calotte insert caps red, yellow, green, blue, white are enclosed in the delivery.

Technical Data

Variant	Ex i With connection chamber	Ex i Without connection chamber
Explosion Protection		
IECEx gas explosion protection	Ex db mb ia IIC T6 Gb	Ex db mb ia IIC Gb
IECEx dust explosion protection	Ex tb IIIC T80 °C Db	
ATEX gas explosion protection	⟨Ex⟩ II 2 G Ex db mb ia IIC T6 Gb	⟨Ex⟩ II 2 G Ex db mb ia IIC Gb

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LED Indicating Lamps for Panel Mounting
Series 8013 for ATEX / IECEx Applications

E4

Technical Data		
Variant	**Ex i With connection chamber**	**Ex i Without connection chamber**
Explosion Protection		
ATEX dust explosion protection	⟨Ex⟩ II 2 D Ex tb IIIC T80 °C Db	
Certificates	ATEX (PTB), China (CQST), IECEx (PTB)	ATEX (PTB), China (CQST), IECEx (PTB)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.	
Safety Data		
Max. capacitance C_i	Negligible	Negligible
Max. inductance L_i	Negligible	Negligible
Max. voltage U_i	28 V	28 V
Max. current I_i	150 mA	150 mA
Max. power P_i	1 W	1 W
Electrical Data		
Rated operational voltage AC	10.8 – 28 V	10.8 – 28 V
Rated operational voltage DC	10.8 – 28 V	10.8 – 28 V
AC UL rated operational voltage	28 V	28 V
Rated operational current	12 mA	12 mA
Frequency	0 to 60 Hz	0 to 60 Hz
UL rated operational current	0.15 A	0.15 A
Rated operational power	0.6 W	0.6 W
Electrical service life	10^5 lighting hours	10^5 lighting hours
Ambient Conditions		
Ambient temperature	-30 °C ... +60 °C	-30 °C ... +60 °C
Ambient temperature	-22 °F ... +140 °F	-22 °F ... +140 °F
Lighting Data		
Lamp	White LED	White LED
Luminous colour	Blue Green Red White Yellow	Blue Green Red White Yellow
Mechanical Data		
Degree of protection (IP) (IEC 60529)	Reverse side IP65, front side IP66	Reverse side IP20, front side IP66
Silicone-free	Yes	Yes
Mounting / Installation		
Tightening torque	1.2 Nm	1.2 Nm
Tightening torque lbf in	10.62 lbf in	10.62 lbf in
Components		
Entry 1	1 x 8161/8-M16-0902	
Entry 1 type	Polyamide cable gland, blue	
Entry 1	M16 x 1.5	
Entry 1 terminal area	2 – 9 mm	
Entry 1 clamping range, inch	0.08 – 0.35 in	

Accessories				
Figure	Description		Art. No.	Weight
Insert cap				
	red		155842	3 g
	yellow		155834	3 g
	green		155852	3 g
	blue		155860	3 g
	white		155824	3 g

E4

| Spare Parts				
Figure	Description		Art. No.	Weight
Closing part				
	8602C3-733-B	for closing unused holes in cover, Ø 30.5 mm, NBR	244306	25 g
	8602C3-733-S	for closing unused holes in cover, Ø 30.5 mm, silicone	244307	25 g
Insert discs for label holder				
	1-line Plain Material: PVC Colour: White Self-adhesive		238271	10 g
	2-line Plain Material: PVC Colour: White Self-adhesive		238272	10 g
	3-line Plain Material: PVC Colour: White Self-adhesive		238273	10 g
Label mount				
	Label mount, size 1, without symbol label Text: 1 line for actuators to fit Ø 30.5 mm holes		155632	1 g
	Label mount, size 2, without symbol label Text: 1 or 2 lines for actuators to fit Ø 30.5 mm holes		155687	2 g
	Label mount, size 3, without symbol label Text: 1, 2 or 3 lines for actuators to fit Ø 30.5 mm holes		155844	2 g
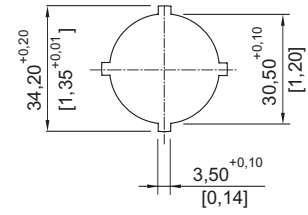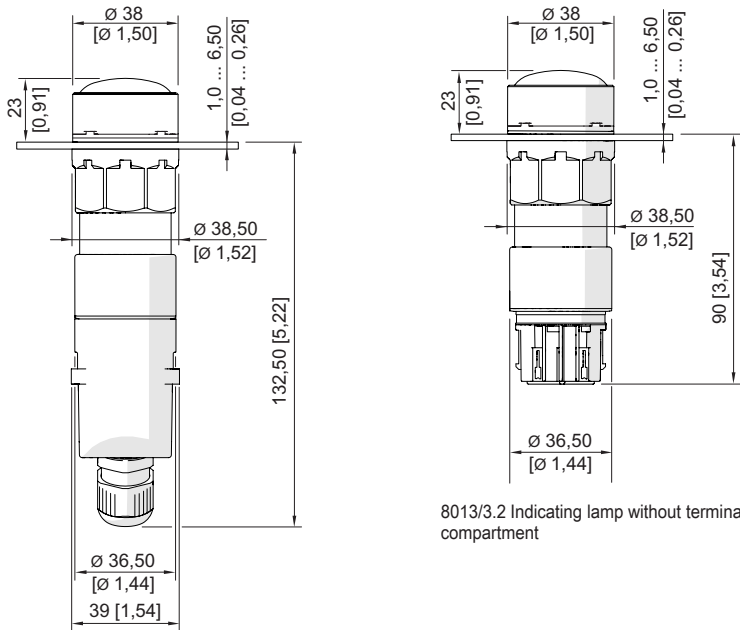
E4 | **Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations**

8013/3.1, 8013/3.3 Indicating lamp with terminal compartment

8013/3.2 Indicating lamp without terminal compartment

Cut-out details
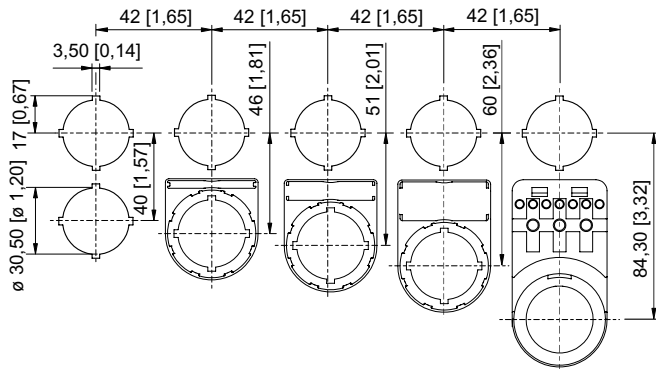
Cut-out with / without front label