

# IS-pB1 Panel Mount Indicator

The IS-pB1 is a compact, panel mount L.E.D. indicator providing reliable cost-effective visual status indication in all hazardous areas. Each IS-pB1 contains a group of high efficiency light emitting diodes mounted behind a coloured diffuser to produce a bright, uniform output with a typical life greater than ten years.

All models contain a 20mA current regulator which maintains constant brilliance and provides protection against excess voltages.

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## Part codes:

IS-pB1 - [x]

ATEX	II 1G Ex ia IIC T4
IECEX	Ga Ex ia IIC T4
FM	CL I: Div 1: GP A B C & D: T4 @ 60°C CL I: Div 2: GP A B C & D: T4 @ 60°C
[x]: L.E.D. colour:	A: Amber
	R: Red
	B: Blue
	G: Green
	W: White

One or two IS-pB1 lamps may be powered from any Ex ia IIC certified Zener barrier or galvanic isolator whose output safety parameters do not exceed:

Uo 30V dc      Po 1.3W at 40°C      Po 1.2W at 60°C

(e.g. 28V, 300Ω or 28V, 234Ω Zener barrier or galvanic isolator)

Gas groups IIA, IIB or IIC

Location Zone 0, 1 or 2

Up to four IS-pB1 lamps may be powered from any certified Ex ia IIB Zener barrier or galvanic isolator whose output safety parameters do not exceed:

Uo 30V dc      Po 1.3W at 40°C

Gas groups IIA or IIB

Location Zone 0, 1 or 2

## Accessories:

IS-pB1-LEGLegend Plate

IS-pB1-RSARear Sealing Assembly IP65

## Features:

- Two lamps may be powered from a single IIC intrinsically safe Zener barrier or galvanic isolator and up to four lamps from a IIB device.
- Red, amber, green, blue and white comply with the indicator light colour requirements specified in IEC204-1, allowing all plant conditions to be annunciated.
- Mounting is via a single industry standard 22.5mm diameter hole.

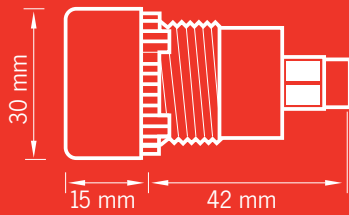
## Approvals:

- ATEX certificate: BAS 01ATEX1062X, EN 50014 : 1997 + Amd 1 & 2, EN 50020 : 1994, EN 50284: 1999
- IECEX certificate: IECEX ITS 08.0030X, IEC 60079-0 : 2007-10, IEC 60079-11 : 2006, IEC 60079-26 : 2006
- FM file: 3022662  
3610: Entity, 3611: Nonincendive



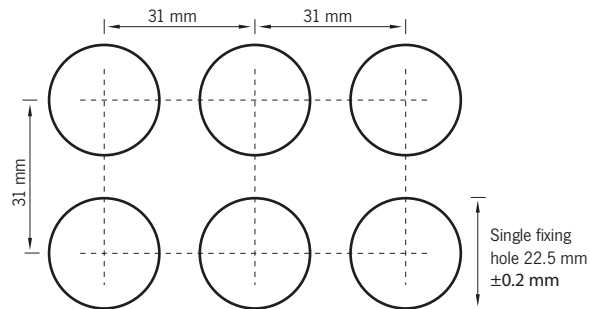
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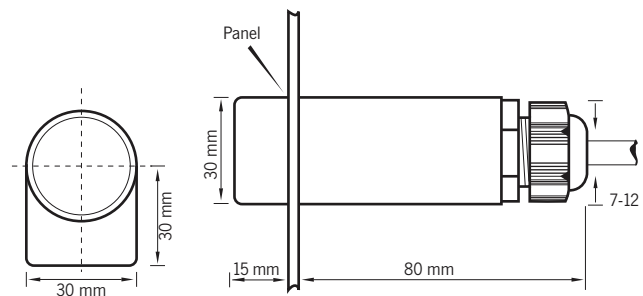


### Specification:

Operating voltage:	14-30V dc
Reverse voltage:	60V max.
Current:	18 to 22mA
Output:	Typical at 150mm:
Red	190 lux
Amber	150 lux
Green	250 lux
Blue	150 lux
White	300 lux
Ingress protection:	Front IP66 - Rear IP20 - see accessories for optional IP65 rear sealing assembly.
Rating:	Continuous
Housing material:	Nylon 6
Lens material:	Polycarbonate
Mounting:	Panel mont - 22.5mm
Terminals:	Screw clamp for 1.5mm <sup>2</sup>
Operating temp:	-20 to 60°C
Storage temp:	-40 to 85°C
Relative humidity:	5 to 95% non condensing



Fixing centres for maximum packing density.  
Special tool may be required to tighten fixing nuts  
when minimum spacing is used.



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