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warning signals

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.

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-LEG	Legend Plate
IS-pB1-RSA	Rear 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.
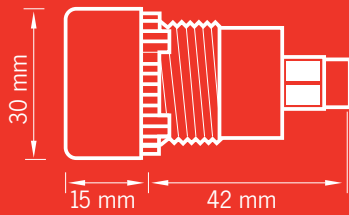
Approvals:

- 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
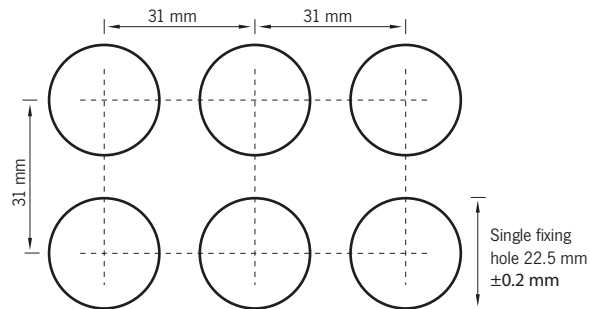
- FM file: 3022662 3610: Entity, 3611: Nonincendive

FM APPROVED

CE
0786-CPD-20338

Ex

IECEx

30 mm

15 mm   42 mm

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 1.5mm2
Operating temp:	-20 to 60°C
Storage temp:	-40 to 85°C
Relative humidity:	5 to 95% non condensing

31 mm   31 mm

31 mm

Single fixing
hole 22.5 mm
±0.2 mm

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

Panel

30 mm

30 mm

30 mm

15 mm   80 mm

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