

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.

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: ITS13ATEX27822X,
EN 60079-0 : 2012, EN 60079-11 : 2012,
EN 60079-26 : 2007
- IECEx certificate: IECEx ITS 08.0030X,
IEC 60079-0 : 2011, IEC 60079-11 : 2011,
IEC 60079-26 : 2006
- FM file: 3022662
3610: Entity, 3611: Nonincendive

Accessories

IS-pB1-LEG	Legend Plate
IS-pB1-RSA	Rear Sealing Assembly IP65



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 mount - 22.5mm
Terminals:	Screw clamp for 1.5mm ²
Operating temp:	20 to 60°C [68° to 140°F]
Storage temp:	40 to 85°C [104° to 185°F]
Relative humidity:	5 to 95% non condensing

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		