

# 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

ISpB1-LEG| Legend Plate |

|ISpB1-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 <sup>2</sup>
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
Weight:	20g / 0.04lbs

## Part Codes

ISpB1 – [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 ISpB1 lamps may be powered from any Ex ia IIC certified Zener barrier or galvanic isolator whose output safety parameters do not exceed: U <sub>o</sub> 30V dc P <sub>o</sub> 1.3W at 40°C P <sub>o</sub> 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 ISpB1 lamps may be powered from any certified Ex ia IIB Zener barrier or galvanic isolator whose output safety parameters do not exceed: U <sub>o</sub> 30V dc P <sub>o</sub> 1.3W at 40°C Gas groups IIA or IIB Location Zone 0, 1 or 2	