

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 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

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_o 30V dc P_o 1.3W at 40°C P_o 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_o 30V dc P_o 1.3W at 40°C
Gas groups IIA or IIB
Location Zone 0, 1 or 2

E2S Warning Signals

No liability is accepted for any consequence of the use of this document. The technical specification of this unit is subject to change without notice due to our policy of continual product development. All dimensions are approximate. This unit is sold subject to our standard conditions of sale, a copy of which is available on request.

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