

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 | | |