**DATA SHEET** Isolating Spark Gaps (ISG)

# EPZ 100/350 Ex

## Class 1L for Light Duty

Corrosion resistant enclosure with hermetic environmental seal and flying leads for ease of connection. Use in places in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas or vapour is not likely to occur in normal operation, but if it does occur, will persist for short period only (usually no longer than two hours).

Location of Use: Explosive atmosphere, Zone 2, Group II, Category 3
Type of Protection: Equipment Producing Operational Sparks
IEC/EN Category: Class 1L
Housing: Corrosion resistant enclosure
Compliance: IEC 60079-0:2011
CE 0598 IEC 60079-15:2010
EN 60079-0:2012+A11:2013
Ex EN 60079-15:2010
EN 62561-3:2017

## Technical Data

| EPZ 100/350 Ex | | 350 |
|---|---|---|
| **Intrinsic Safety Parameters** | | |
| IECEx BAS 15.0069X | | Ex nC IIC T5 Gc (-30°C ≤ 70°C) |
| Basefa15ATEX0102X | | II 3G Ex nC IIC T5 Gc (-30°C ≤ 70°C) |
| **Electrical** | | |
| Rated Power Frequency Withstand Voltage | $U_{W\,AC}$ | 240V |
| Rated DC Withstand Voltage | $U_{W\,DC}$ | 350V |
| Rated Impulse Sparkover Voltage | $U_{r\,imp}$ | 1000V |
| Maximum Discharge Current (8/20µs) | $I_{max}$ | 100kA |
| Impulse Discharge Current (10/350µs) | $I_{imp}$ | 25kA |
| Specific Energy | W/R | 156kJ/Ω |
| Charge | Q | 12.5As |
| Residual Voltage at 5kA (8/20µs) | $U_{res}$ | 1.6kV |
| ISG Classification | | 1L |
| Capacitance at 1MHz | C | < 10pF |
| **Mechanical & Environmental** | | |
| Temperature Range | Ta | -40 °F to +158 °F [-40 °C to +70 °C] |
| Nominal Outer Diameter | | 1.102" [28mm] |
| Nominal Length | | 5.511" [140mm] |
| Length With Cables (approx) | | 39.370" [1m] |
| Length (approx) | | 17.716" [450mm] |
| Cross Sectional Area | | 6 AWG [16mm²] |
| Number of Conductors | | ≥ 465/0.21 |
| Insulation | | Double Insulated |
| Enviromental Protection | | UV Stabilized, Flame Retardant |
| Resistant | | Acids, Solvents and Oils |
| Connection | | Suitable for Screw or Lug Termination |
| Degree of Protection | | IP 67 |
| Housing Material | | Metal Tube |
| Location | | Indoor/Outdoor |

| **Specifications for Use** | |
|---|---|
| Environmental | Local heating by pipelines and other hot surfaces in vicinity of the installation of the product must be considered by the installer to ensure that specified maximum ambient temperature is not exceeded. |
| Wiring | Connection of the interal cables must be in accordance with the applicable requirement of IEC 60079-0 and IEC 60079-15 for field wiring connections. |
| Safety | EPZ has an external non-metallic heat shrink sleeve which may provide a potential electrostatic charging hazard. See installation instructions for further information. |

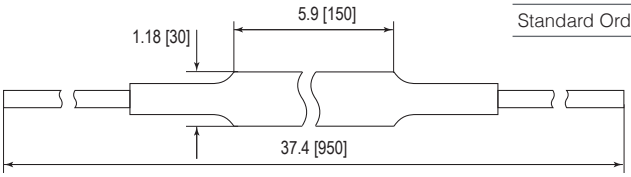
| **Order Information** | | |
|---|---|---|
| Order Code | | **350** |
| EPZ 100/350 Ex | | 509 521 |



*Information contained in this document is subject to change at any time without notice.*

## Internal Configuration

## Complete Unit




| Complete Unit Dimensions & Packaging | | |
|---|---|---|
| **EPZ 100/350 Ex** | | **350** |
| Weight | pounds [grams] | 1.103 [500] |
| Packaging Dimensions (H × W × L) | | 13.7 × 4.9 × 2.1" [350 × 125 × 55 mm] |
| Standard Order Quantity | | 27 Units |

inches
[mm]

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RoHS COMPLIANT CE



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