

Isolating Spark Gaps (ISG)

EPZ 100/350 Ex

Class 1L for Light Duty



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
IEC 60079-15:2010
EN 60079-0:2012+A11:2013
EN 60079-15:2010
EN 62561-3:2017



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).

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}	100 kA
Impulse Discharge Current (10/350µs)	I_{imp}	25 kA
Specific Energy	W/R	156 kJ/Ω
Charge	Q	12.5 As
Residual Voltage at 5 kA (8/20µs)	U_{res}	1.6 kV
ISG Classification		1L
Capacitance at 1 MHz	C	< 10 pF

Mechanical & Environmental

Temperature Range	Ta	-40 °F to +158 °F [-40 °C to +70 °C]
Nominal Outer Diameter		1.102" [28 mm]
Nominal Length		5.511" [140 mm]
Length With Cables (approx)		39.370" [1 m]
Length (approx)		17.716" [450 mm]
Cross Sectional Area		6 AWG [16 mm ²]
Number of Conductors		≥ 465/0.21
Insulation		Double Insulated
Environmental 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 internal 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

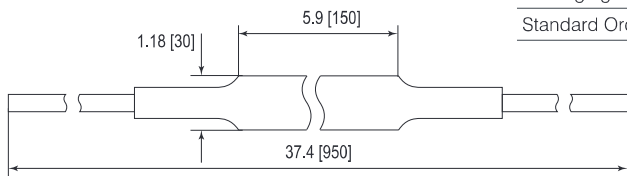
Order Code	350
EPZ 100/350 Ex	509 521

EPZ 100/350 Ex

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 × 55mm]
Standard Order Quantity		27 Units

Miscellaneous SPDs

inches
[mm]

