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T-24-EX-L SPD for Signal (24V; 2 wires; In=10kA; Intrinsic Safety) 7096962

SPD for 24V signal; 2 wires; intrinsic safety: Ex ia IIC T4~T6 Ga; C2: 20kV/10kA, D1: 2.5kA/line; hot-pluggable; grounded through DIN rail



Voltage: 24V
wire: 2
Nominal discharge current In: 10kA
EX: Intrinsic safety
Connection: Screw connection

产品参数

Product Features

Features	24V, 20kA; Intrinsic Safety; Hot Pluggable; 2 wires
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Protections

Protected Objects/Systems	AI; AO; DI; DO (Single Channel)
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Dimensions

Depth	75.0mm
Width	12.5mm

Height	90.0mm
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Housing

Colors	Blue
Flame Retardant Grade	V0
Protection Level	IP20
Material	PA66
Brand	Dinkle

Basic Parameter

Response Time	1ns
Resistance per Wire	1ohm
Bandwidth	10MHz (-0.5dB)
Leakage Current	< 1uA
Maximun continuous operating voltage Uc	32VDC
Nominal operating voltage Un	24VDC
Nominal Operating Current IL	800mA

Security Data (Lightning Protection)

Voltage Protection Level Up (1kV/us)	40V (Line to Line) /600V (Line to Ground)
Voltage Protection Level Up (8/20us)	60V (Line to Line) /600V (Line to Ground)
Impulse Current I _{imp} (10/350us)	2.5kA
Maximum Discharge Current I _{max} (8/20us)	20kA
Nominal Discharge Current I _n (8/20us)	10kA
Total Impulse Current (10/350us)	5kA
Total Discharge Current I _{total}	40kA

Security Data (Explosion-Proof)

Maximum Internal Inductance L _i	0mH
Maximum Internal Capacitance C _i	0uF
Maximum Input Power P _i	0.7W
Maximum Input Current I _i	100mA
Maximum Input Voltage U _i	29V

Safety Characteristic Parameter (SIL)

Safety Integrity Level (SIL)	SIL3
Safe Failure Fraction (SFF)	0.9056
λ_{total}	32.66
λ_{DD}	19.38
λ_{DU}	2.02
λ_{SD}	0
λ_{SU}	11.26

Product Approvals

Certification	Explosion-Proof Certification;Lightning Protection Certification;Functional Safety Certification
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Certification

Explosion-Proof Certification	Ex ia IIC T4 ~ T6 Ga
Lightning Protection Certification	Shanghai Lightning Protection Products Test Center
Functional Safety	SIL3

Standards

Names	GB/T 18802.21 / IEC 61643-21; GB 3836.1 / IEC 60079-0; GB 3836.4 / IEC 60079-11; IEC 61508
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Ambient Requirements

Maximum Altitude	2000m
Applicable Location	Cabinet、Explosion-Proof Tank
Permissible Humidity (Operation)	5%—95%
Ambient Temperature (Storage)	- 40—85°C
Ambient Temperature (Operation)	- 40—70°C

Connection Parameters

Maximum Tightening Torque	0.5Nm
Connection Method	Terminal Connection
Stripping Length	8mm
Conductor Cross Section Flexible	0.2—2.5mm ²
Conductor Cross Section Solid	0.2—4mm ²

Mounting

Mounting Method	35mm Lead Rail
Interface	Screw
Mounting Position	Cabinet

上海辰竹仪表有限公司

SHANGHAI CHENZHU INSTRUMENT CO.,LTD.

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