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C-5R3-EX SPD for Signal (5V; 3 wires; In=10kA; Intrinsic Safety) 7092664

SPD for 5V signal; 3 wires; Intrinsic Safety; RTD; C2: 20kV/10kA/line; grounding via the rail directly.



Voltage: 5V

wire: 3

Nominal discharge current In: 10kA

EX: Intrinsic safety

Connection: Push-in connection

产品参数

Product Features

Features	5V; 10kA; Intrinsic Safety; Three Wire
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Protections

Protected Objects/Systems	RTD
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Dimensions

Depth	72.0mm
Width	6.0mm

Height	88.0mm
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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	40MHz (-0.5dB)
Leakage Current	< 10uA
Maximun continuous operating voltage Uc	6VDC
Nominal operating voltage Un	5VDC
Nominal Operating Current IL	500mA

Security Data (Lightning Protection)

Voltage Protection Level Up (8/20us)	40V (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

Security Data (Explosion-Proof)

Maximum Internal Inductance L _i	0mH
Maximum Internal Capacitance C _i	0μF
Maximum Input Power P _i	5.32W
Maximum Input Current I _i	500mA
Maximum Input Voltage U _i	6V

Safety Characteristic Parameter (SIL)

Safety Integrity Level (SIL)	SIL3
Safe Failure Fraction (SFF)	90.62%
λ _{DD}	2.48E-08

λ DU	2.57E-09
λ SD	1.23E-08
λ SU	6.05E-08

Product Approvals

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

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

Standards

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

Maximum Altitude	2000m
Applicable Location	Cabinet
Permissible Humidity (Operation)	10%—90%

Ambient Temperature (Storage)	-40—85°C
Ambient Temperature (Operation)	T4:-40~+80°C T5:-40~+75°C T6:-40~+50°C

Connection Parameters

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	Push-in
Mounting Position	Cabinet

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