

TECHNICAL DATA SHEET

ECD EARTH CONTINUITY RELAY – TYPE D

Electrical Protection

Applications

Substation or DCB Earth continuity protection

[Ex ia] I IECEx TSA 13.0004X (Intrinsically safe)

AS2081: 2011 - Section 5 (Earth Continuity)

Features

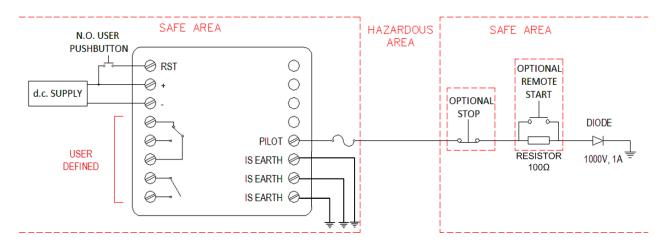
- AS/NZS 2081: 2011 Compliant
- SIL2 Capable
- 24VDC or 48VDC Supply (model dependent)
- 5 x diagnostic LEDs
- Trip time settings 50ms, 100ms, 200ms, 300ms, 400ms, 500ms
- Trip resistance settings 10Ω, 15Ω, 20Ω, 25Ω, 35Ω, 45Ω
- Selectable remote start
- Selectable trip latching
- Diode termination



Product description

The ECD is an electrical protection relay designed for operation in underground coal mining applications. It provides earth continuity protection functions that ensure the electrical distribution system in the mine operates safely. It continually monitors the earth continuity of a mining trailing or reeling cable.

Diagram



Specifications			
Certification / approvals			
Туре	[Ex ia] I - for use in	non-hazardous area only	
Certificate Number	IECEx TSA 13.0004X		
	Um = 132Vrms		
	Im = 5.25A for 1s		
	Uo = 28V		
I/O Parameters	lo = 184mA		
	Po = 1.28W		
	Co = 2.0uF		
	Lo = 10.0mH		
Ambient Temperature	-20°C to +65°C		
Verient	Models ECD 24VDC IS		
Variant	Power Supply Inputs	ECD 48VDC IS	
Voltago	18 – 28.8Vd.c.	36 – 57.6Vd.c.	
Voltage Current	20.000.c. <250mA		
Current	Outputs	<125111A	
Relay Contacts 2 x NO / 1 x NC / 2 x COM			
Limits	1A @ 110Va.c 1A @ 30Vd.c (Resistive)		
	Mechanical		
Weight		503gms	
IP rating	IP20		
Dimensions	Front panel		
		O Pluot S Earth O S Earth	
		0 0 0 0 0 0 0 0	
		STATUS 10 10 10	
	ECD	IECEX TSA 13 0004X	
and Sold		AS/NZS 2081 2011	
	AMPEGNITACL		
	CONTRA		
	AMPL	BECD	
CO CO		REMOTE START LATCHING	
		HEALTHY	
State State		SHORT CIRCUIT	
	114		
		START TIMED OUT	
45		RST + + + 1001	
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Ordering		
Part Number	Description	
163554	ECD 24VDC IS	
163555	ECD 48VDC IS	
Accessories		
141479	P/SUPPLY 24V 1A DIN MOUNT	
115119	MODULE PTB PILOT TERMINATION FOR ECB/D/M	
169732	RES 100R 5W 1%	
NA	Normally Open Reset Button - Contact Ampcontrol	

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