

ERbic MAX Profibus IDC Switch

Robust metal housing with axial cable outlet and quick and easy Profibus cable termination



General

ERNI has extended the established Bus-Interface Connector family with the ERbic MAX Profibus IDC switch. The new backshell design MAX stands for a diecast metal housing, which is ideal for applications in rough environment and with strict EMC requirements, like welding control units and power stations. The axial cable outlet on the ERbic MAX is positioned in mating direction. This achieves a narrow, space-saving, slimline form, as it is required in applications where two fieldbus interfaces need to be on top of each other. The IDC terminals allow for quick and easy connection of discrete Profibus wires without pre-stripping the wire insulation. Furthermore, tooling is not required to operate the IDC terminal block. The Profibus IDC switch includes an integrated switch that allows for flexible system design and easy system extension. The external switch, which is recessed and therefore protected from accidental interruption, operates the termination resistor. In a network extension, the appropriate active termination connector may easily be switched to a node connector without terminating the system. Additionally, while trouble shooting the network, the appropriate node connector can be terminated and separated from adjacent network participants. This allows the remaining system to continue operation without disruption.

Part number: 134928

Technical Features

- Diecast metal housing
- Cable Outlet: axial (in D-Sub mating direction)
- D-Sub pin configuration according to Profibus
- Switch can be operated external to activate and deactivate termination
- Switch protection
- The switch position and active or inactive termination are visually detectable
- Activated termination separates Bus participants
- Cable Types:
 - Profibus Cable: Solid wire 1x2x \varnothing 0.64 mm
 - Outer Diameter: max. 8.0 mm
- Data rates up to 12 Mbit/s, through integrated SMT inductors

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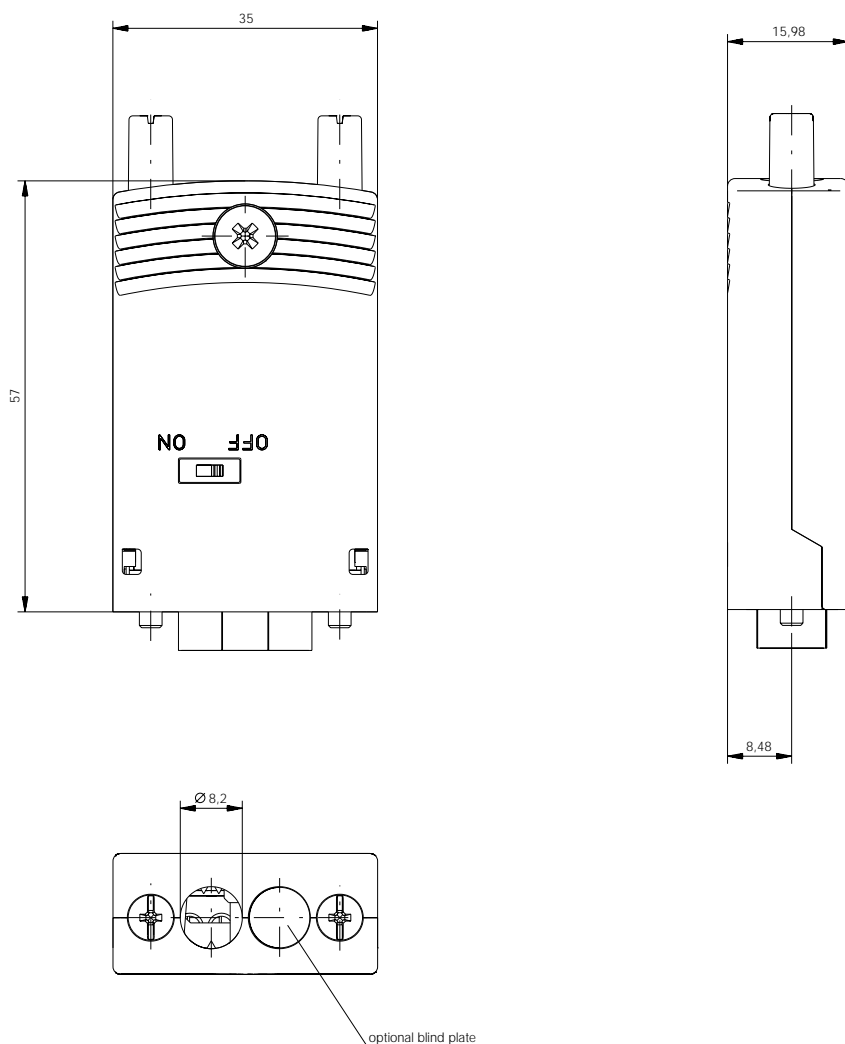
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Electrical and mechanical characteristics for Cu transmission technology

Interface connector	D-Sub, 9-pin
Cable termination	2 x axial 1 cable outlet may be closed with blind plate
Cable diameter	4.5 mm (0.177") - 8.0 mm (0.315")
Single wire diameter	solid: 0.64 mm
Termination mode	IDC Profibus
Data transmission rate	according to the bus specification; up to 12 MBit/s
Temperature range	-20°C - +70°C
Permissible air humidity	max. 75% at + 25°C
Degree protection	IP 30
Dimensions in mm	57mm x 35mm x 16.0mm
Housing material	ZnAl, galvanized
D-Subminiature screw	#4/40 UNC, knurled and slotted (M 3 upon request)
UL approval	in preparation

Dimensions



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