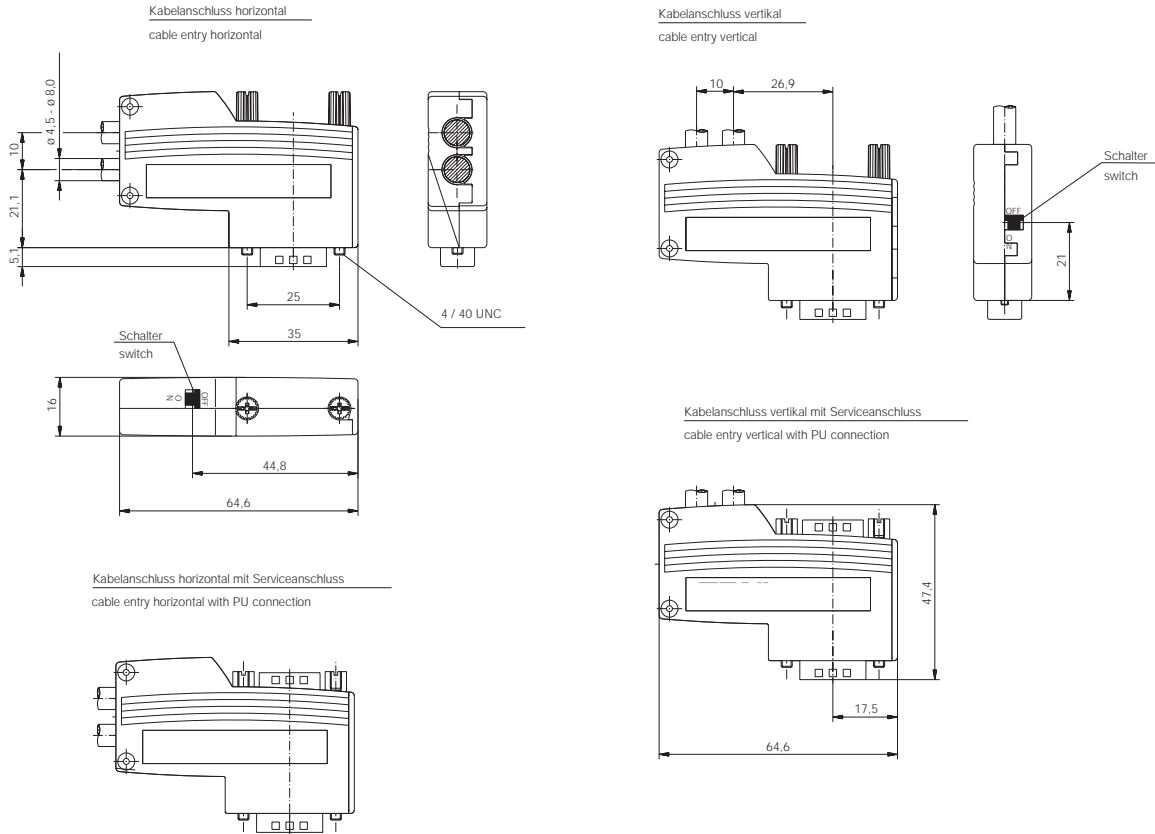
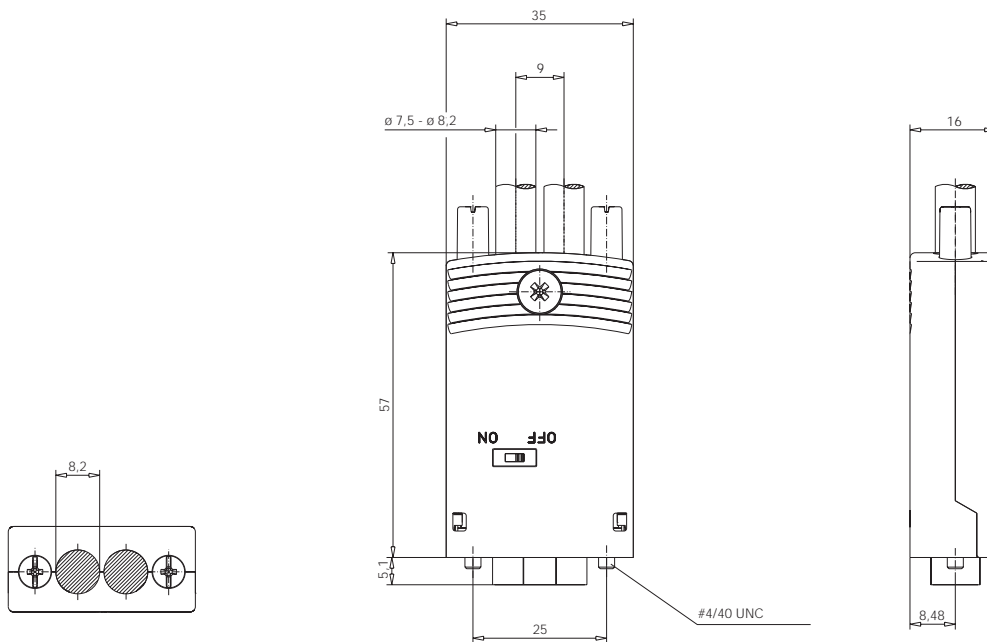


ERbic



ERbic MAX





DATA SHEET	21124050
ERbic PROFIBUS Connectors	valid from : 13.01.2005

ERbic Profibus



Profibus is the most widely used field bus. It is promoted by Siemens and by organized, interested and committed manufacturers and users in the PNO (Profibus user organization). The IP 20 interface on the device side is standardized as a 9-pin Sub-D female connector. The max. data transmission rate is 12 Mbit/s. The cable is a shielded twisted pair conductor. The cable sheath is violet and the signal cores are green (A) and red (B).
 With its comprehensive program, we provide customers with a wide variety of options. Particular emphasis should be placed on the different termination technologies, from the traditional screw terminal to the cage clamp terminal to the IDC terminal.

Electrical and mechanical characteristics

Interface connector	Sub-D, 9-pin, male
Cable termination	2 x horizontal, 2 x vertical, MAX: 2 x axial 1 cable outlet can be sealed with blanking plate
Cable diameter	4.5 mm (0.177") – 8.0 mm (0.315")
Cross section of individual conductor	Screw terminal: solid max. 1.5 mm ² ; stranded max. 1.0 mm ² IDC terminal: solid ø 0.64 mm Cage-clamp terminal: 0.08 - 0.5 mm ² (0.75 mm ²)
Termination type	Screw terminal, IDC terminal, cage-clamp terminal
Data transmission rate	According to bus specification, 12 MBit/s
Temperature range	-20 °C – +70 °C
Permissible humidity	Max. 75 % at + 25 °C, non-condensing
Protection class	IP 40, MAX: IP 30
Housing material	Thermoplast UL94V-1, MAX: ZnAl, galvanized
Sub-D screw	#4/40 UNC, knurled with cross-head
UL approval	UL E84703 *
CE marking	ERbic connectors are passive components and do not need to be identified with the CE marking according to EU directives.

* Due to continuous advancement, it is possible that the UL approval of a new version may not have been completed at the time of going to press.

Pin assignment

Terminal	Sub-D pin	Signal
B (1)	3	RxD/TxD-P
A (2)	8	RxD/TxD-N
B (3)	3	RxD/TxD-P
A (4)	8	RxD/TxD-N
-	5	GND
-	6	VP (+5 V)



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ERbic Profibus

Ordering Information

ERbic Type	Color	Cable outlet	D-Sub 9-pin	Screw	Preferred type1)	Part Number
Profibus with external switch and IDC terminal -> only suitable for solid wire						
PROFIBUS IDC Switch 90	slat gray	horizontal	male	#4/40 UNC	yes	21124050
PROFIBUS IDC Switch 90 - reversed	slat gray	horizontal	male	#4/40 UNC	yes	21124052
PROFIBUS IDC Switch 90 PU	slat gray	horizontal	male and female (PG connection)	#4/40 UNC	yes	21124051
Profibus with service/PU connection, reversed	slat gray	horizontal	male and female (PG connection)	#4/40 UNC	yes	on request
PROFIBUS IDC Switch 180	slat gray	vertical	male	#4/40 UNC	yes	21124053
Profibus with service/PU connection	slat gray	vertical	male and female (PG connection)	#4/40 UNC	yes	on request
Profibus with external switch and cage clamp -> suitable for solid and flexibel wire						
PROFIBUS CC Switch 90	slat gray	horizontal	male	#4/40 UNC	yes	21124090
PROFIBUS CC Switch 90 PU	slat gray	horizontal	male and female (PG connection)	#4/40 UNC	yes	21124091
Profibus with external switch, IDC terminal and metal housing -> only suitable for solid wire						
PROFIBUS IDC Switch 180 AX	silver	axial	male	#4/40 UNC	yes	21124054
Profibus with external switch and screw terminal -> suitable for solid and flexibel wire						
PROFIBUS SC Switch 90	slat gray	horizontal	male	#4/40 UNC	yes	21124064
PROFIBUS SC Switch 90 PU	slat gray	horizontal	male and female (PG connection)	#4/40 UNC	yes	21124063

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ERbic Profibus

Ordering Information

ERbic Type	Color	Cable outlet	D-Sub 9-pin	Screw	Preferred type1)	Part Number
Profibus node with screw terminal -> suitable for solid and flexibel wire						
PROFIBUS SC Node 90	slat gray	horizontal	male	#4/40 UNC	yes	21124066
PROFIBUS SC Node 90 - reversed	slat gray	horizontal	male	#4/40 UNC		21124067
PROFIBUS SC Node 90 PU	slat gray	horizontal	male and female (PU connection)	#4/40 UNC	yes	21124072
PROFIBUS SC Node 180	slat gray	vertical	male	#4/40 UNC	yes	21124068
Profibus reversed	slat gray	vertical	male	#4/40 UNC		on request
Profibus with service/PU connection	slat gray	vertical	male and female (PU connection)	#4/40 UNC		on request
Profibus termination with screw terminal -> suitable for solid and flexibel wire						
PROFIBUS SC Termination 90	yellow	horizontal	male	#4/40 UNC	yes	21124069
PROFIBUS SC Termination 90 - reversed	yellow	horizontal	male	#4/40 UNC		21124071
PROFIBUS SC Termination 90 PU	yellow	horizontal	male and female (PU connection)	#4/40 UNC	yes	21124065
PROFIBUS SC Termination 180	yellow	vertical	male	#4/40 UNC	yes	21124070
Profibus reversed	yellow	vertical	male	#4/40 UNC		on request
Profibus with service/PU connection	yellow	vertical	male and female (PU connection)	#4/40 UNC		on request

Packaging: Single box with enclosed assembly instructions.

1) Preferred types are generally available from stock.

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