

SIMATIC ET 200 distributed I/O

PROFIBUS components

Diagnostic repeater for PROFIBUS DP

Overview



- RS 485 repeater with online line diagnostics for PROFIBUS DP
- DP standard PROFIBUS slave (DP-V1)
- Automatic determination of fault types and locations
- Data transmission rate 9.6 kbit/s to 12 Mbit/s
- Connection through FastConnect using the insulation displacement method

Technical specifications

6ES7 972-0AB01-0XA0	
Supply voltages	
Rated value	Yes
• 24 V DC	20.4 V
• permissible range, lower limit (DC)	28.8 V
• permissible range, upper limit (DC)	
Connection method	
Bus cables	FastConnect insulation displacement, 10 clamping cycles possible
Power supply	Terminal block
PROFIBUS DP	
Transmission rate, max.	12 Mbit/s; 9.6 Kbit/s to 12 Mbit/s
Environmental requirements	
Operating temperature	
• Min.	0 °C
• Max.	60 °C
Storage/transport temperature	
• Min.	-40 °C
• Max.	70 °C
Relative humidity	
• Operation, max.	95 %; at 25 °C
Degree of protection	
IP20	Yes
Dimensions and weight	
Dimensions	
• Width	80 mm
• Height	125 mm
• Depth	67.5 mm
Weight	
• Weight, approx.	300 g

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Ordering data	Order No.	Order No.	
RS 485 diagnostic repeater For connection of 1 or 2 segments to PROFIBUS DP; with online diagnostic functions for monitoring the bus cables	6ES7 972-0AB01-0XA0	PROFIBUS FastConnect Stripping Tool Preadjusted stripping tool for fast stripping of PROFIBUS FastConnect bus cables	6GK1 905-6AA00
Accessories		PROFIBUS FC Standard Cable Standard type with special design for quick mounting, 2-core, shielded, sold by the meter, max. delivery unit 1000 m, minimum order quantity 20 m	6XV1 830-0EH10
RS 485 bus connector with 90° cable outlet With screw terminals Max. transfer rate 12 Mbit/s • Without PG interface • With PG interface	6ES7 972-0BA12-0XA0 6ES7 972-0BB12-0XA0	S7 Manual Collection J Electronic manuals on DVD, multi-language: S7-200, TD 200, S7-300, M7-300, C7, S7-400, M7-400, STEP 7, Engineering Tools, Runtime Software, SIMATIC DP (Distributed I/O), SIMATIC HMI (Human Machine Interface), SIMATIC NET (Industrial Communication)	6ES7 998-8XC01-8YE0
PROFIBUS FastConnect bus connector RS 485 with 90° cable outlet With insulation displacement terminals, max. data transfer rate 12 Mbit/s Without PG interface • 1 unit • 100 units	6ES7 972-0BA52-0XA0 6ES7 972-0BA52-0XB0	S7 Manual Collection update service for 1 year D Scope of delivery: Current DVD "S7 Manual Collection" and the three subsequent updates	6ES7 998-8XC01-8YE2
With PG interface • 1 unit • 100 units	6ES7 972-0BB52-0XA0 6ES7 972-0BB52-0XB0	Manual for PROFIBUS networks ¹⁾ Network architecture, configuration, network components, installation German	6GK1 970-5CA20-0AA0
RS 485 bus connector with angled cable outlet (35°) With screw terminals, max. transfer rate 12 Mbit/s • Without PG interface • With PG interface	6ES7 972-0BA42-0XA0 6ES7 972-0BB42-0XA0	BT 200 Hardware Tester with point-to-point cable for station testing, with test connector for wiring test, without charging unit, with operating instructions in German/English/French	6ES7 181-0AA01-0AA0
PROFIBUS FastConnect RS 485 bus connector with angular cable outlet (35°) With insulation displacement terminals, max. transfer rate 12 Mbit/s • Without PG interface • With PG interface	6ES7 972-0BA60-0XA0 6ES7 972-0BB60-0XA0	Connecting cable for PROFIBUS 12 Mbit/s, for PG connection to PROFIBUS DP, preassembled with 2 x 9-pin sub D connector, 3.0 m	6ES7 901-4BD00-0XA0

¹⁾ Further language variants and manuals can be found for the respective products at: www.siemens.com/automation/csi/net

D: Subject to export regulations AL: N and ECCN: 5D992

J: Subject to export regulations AL: N and ECCN: EAR99S