

PSI-REP-PROFIBUS/12MB

Order No.: 2708863




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Modular repeater for electrical isolation and range increase for PROFIBUS up to 12 Mbps, 4-way isolation, rail-mountable, supply 24 V DC



Commercial data

GTIN (EAN)	 4 046356 078993
sales group	H611
Pack	1 pcs.
Customs tariff	85176200
Catalog page information	Page 493 (IF-2009)

Product notes

WEEE/RoHS-compliant since:
12/25/2007



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Technical data

Serial interface

Interface 1	PROFIBUS acc. to IEC 61158, RS-485 2-conductor
Operating mode	Through PROFIBUS connector
File format/coding	UART (11 Bit, NRZ)

Data direction switching	Automatic control, min. station response time 2 bits
Termination resistor	External
Transmission medium	2-wire twisted pair, shielded
Transmission length	max. 1200 m (Depends on transmission speed and cable type)
Type of connection	D-SUB-9 female connector
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Serial transmission speed	Manual and automatic adjustment: 9.6/19.2/45.45/93.75/187.5/500 kbps; 1.5/3/6/12 Mbps

Fault warning output

Maximum switching voltage	60 V DC 42 V AC
Limiting continuous current	1 A

Power supply

Nominal supply voltage	24 V DC ±20 %
Typical current consumption	90 mA (24 V DC)

General data

Transmission channels	2 (1/1), TD, RD, half duplex
Bit delay	< 1 Bit
Bit distortion, input	Max. ± 35 %
Bit distortion, output	< 6.25 %
Width	35 mm
Height	99 mm
Depth	105 mm
Ambient temperature (operation)	-20 °C ... 60 °C
Electrical isolation	PROFIBUS (A) // PROFIBUS (B) // Supply // DIN rail connector
Test voltage data interfaces	1.5 kV
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 55011
Noise immunity	EN 61000-4-2

Housing material	PA V0, color green
Color	green
MTBF	1136 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	238 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
ATEX	Ex II 3 G Ex nAC IIC T4 X
UL, USA / Canada	cUL 508 Recognized

Certificates / Approvals



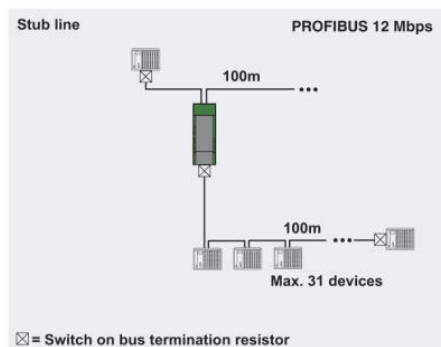
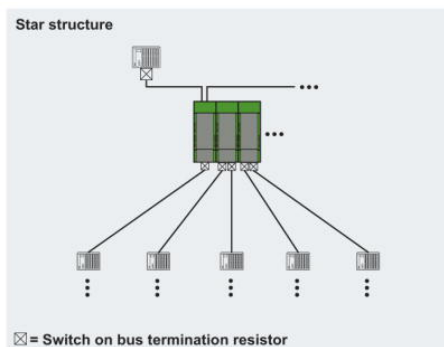
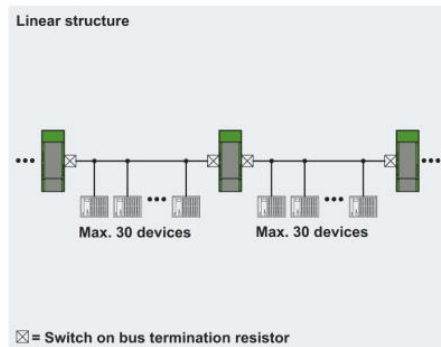
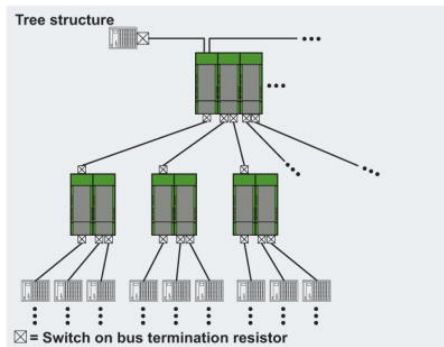
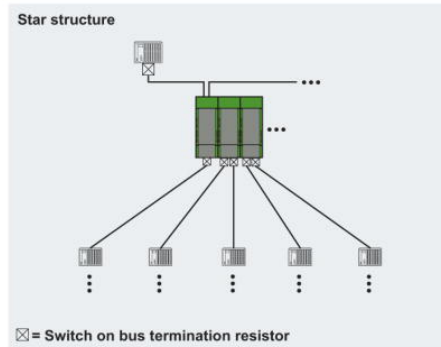
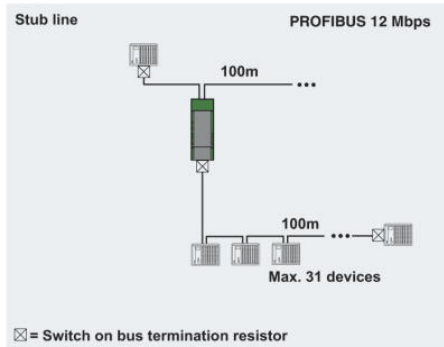
Certification CUL, UL

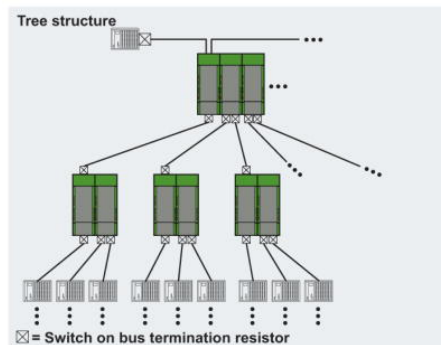
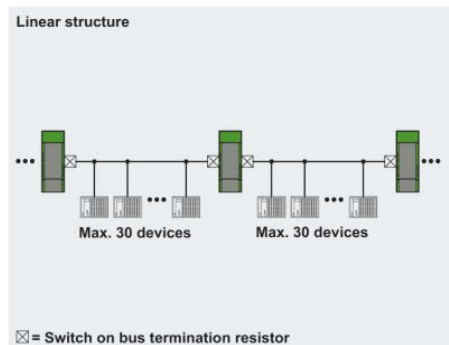
Accessories

Item	Designation	Description
Cable/conductor		
2744652	PSM-CABLE-PROFIB/FC	PROFIBUS cable, Fast Connect type, up to 12 Mbps (02YSY (ST)CY 1x2x22 AWG)
General		
2709561	ME 17,5 TBUS 1,5/ 5-ST-3,81 GN	DIN rail connector for DIN rail power supply unit, gold-plated contacts, for DIN rail mounting, 5-pos.
2866983	MINI-SYS-PS-100-240AC/24DC/1.5	DIN rail power supply unit, primary-switched mode, slim design, output: 24 V DC / 1.5 A
Plug/Adapter		
2708245	SUBCON-PLUS-PROFIB/PG/SC2	D-SUB connector, 9-pos., male connector, cable entry < 35°, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB female connector for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks
2708232	SUBCON-PLUS-PROFIB/SC2	D-SUB connector, 9-pos., male connector, cable entry < 35°, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

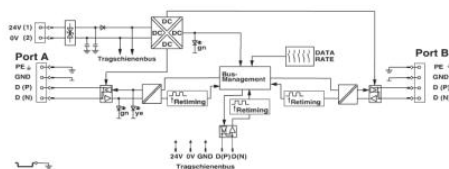
Diagrams/Drawings

Application drawing





Block diagram



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