

Fieldbus coupler

PROFINET IO

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Technical data

		R-IL PN BK DI8 DO4-PAC
System data		
Interfaces		PROFINET IO Device
		local bus
Number of segments per station		max. 63
Total of all I/O data per station		max. 244 Byte
Digital outputs		
Number		4
Nominal output voltage UOut		24 V DC
Differential voltage at INom	Max. [V]	1
Nominal current INom per channel	[A]	0.5
Nominal current tolerances		+ 10 %
Protection		Short-circuit/overload
Actuator connection type		2-, 3-wire connection
Digital inputs		
Number		8
		Digital inputs
Design		According to EN 61131-2 type 1
Switching thresholds max. voltage at low level $U_{L_{max}}$		< 5 V
Switching thresholds Max. voltage at high level $U_{H_{max}}$		> 15 V
Common potentials		Segment supply, ground
Nominal input U_{INom}	[V DC]	24
	Permissible nominal input voltage range	-30 V DC < U_{IN} < + 30 V DC
	[mA]	3
Permissible line length	[m]	30
Sensor connection type		2-, 3-wire connection
Electric data		
Voltage supply	Typ. [V]	24
Voltage Supply Range	Min. [V]	19
	Max. [V]	30
Logic voltage UL		7,5 V (from external 24 V DC voltage changed)
		max. 2 A
Segment feed U_S/U_M	[V DC]	24
	Max. [A]	8
	Tolerances	-15/+20 %
Analog supply U_{ANA}	[V DC]	24
	Tolerances	-15% ... +20 %
	Max. [mA]	0.5
Transmission speed		500 kbauds or 2 Mbauds (automatic detection)
Error message to the higher level control system		Short-circuit/overload
Protection		

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Category Total		IP20
Protection		Class 3 according to VDE 0106, IEC 60536
Forces		
Vibration Resistance	[g]	5
Shock Resistance	[g]	25
Standards		
Certification		UL 508
Weight		
Weight		320 g
Ambient conditions		
Ambient temp. operation	Min. [°C]	-25
	Max. [°C]	55
Ambient temp. storage	Min. [°C]	-25
	Max. [°C]	85
Relative humidity operation	Min. [%]	5
	Max. [%]	90
Relative humidity storage	Min. [%]	5
	Max. [%]	95
Atmospheric pressure (operation)	Min. [kPa]	80
	Max. [kPa]	106
	EN 60034-1	(up to 2,000 above MSL)
Atmospheric pressure (transport/storage)	Min. [kPa]	70
	Max. [kPa]	106
	EN 60034-1	(up to 3,000 above MSL)

Dimensions

		R-IL PN BK DI8 DO4-PAC
Dimensions		
Height H	[mm]	121
Width W	[mm]	80
Depth D	[mm]	70

Type code

Type code	Description
R-IL PN BK DI8 DO4-PAC	PROFINET IO bus coupler, 8 digital inputs, 4 digital outputs, 500 mA

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