

Product data sheet

Specifications



Digital IO module, TeSys island, 4 inputs, 2 outputs

TPRDG4X2

Main

Range	TeSys
Product name	TeSys island
Device short name	TPRDG
Product or component type	Digital IO module
Device presentation	IO module providing 4 digital inputs and 2 digital outputs Enabling advanced control functions in a TeSys island system Control of third parties power devices when associated to a TPRPM power module Operational only when connected to a bus coupler TPRBC
Function of module	Control of 4 sink/source digital inputs with common point Control of 2 sink/source digital outputs with common point
Product compatibility	TPRBC bus coupler TPRPM power module
Discrete input number	4 isolated with common point conforming to IEC 61131-2 Type 1
Discrete input voltage	24 V DC (voltage limits: 19.2...28.8 V)
Discrete input current	7 mA at 24 V
Input impedance	3.43 kOhm
Discrete input logic	Positive or negative, 0...5 V (state 0), 15...28.8 V (state 1)
Discrete output number	2 isolated with common point
Discrete output logic	Source or sink
Discrete output voltage	24 V DC (voltage limit: 19.2...28.8 V)
Discrete output current	0.5 A maximum
Protection type	1 external fuse, 0.5 A fast fuse for each output
Response time	5 ms at 24 V for digital input 5 ms at 24 V for digital output
Local signalling	1 LED (green/red) for DS (device status) 1 LED (green) for I0 (input 1 status) 1 LED (green) for I1 (input 2 status) 1 LED (green) for I2 (input 3 status) 1 LED (green) for I3 (input 4 status) 1 LED (green) for Q0 (output 1 status) 1 LED (green) for Q1 (output 2 status)

Complementary

[Us] rated supply voltage	24 V DC supplied by the bus coupler
Current consumption	10 mA
Power dissipation in W	0.5 W maximum

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[Uimp] rated impulse withstand voltage	0.5 kV conforming to IEC 61010-1
Standards	IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201
Product certifications	UL EAC (pending) CSA
Mounting mode	Horizontal and vertical (35 mm symmetrical rail)
Connections - terminals	Input/output circuit: removable spring terminal block 8 cable(s) 0.2...2.5 mm ² (AWG 24...AWG 14) rigid Input/output circuit: removable spring terminal block 8 cable(s) 0.2...2.5 mm ² (AWG 24...AWG 14) flexible without cable end Input/output circuit: removable spring terminal block 8 cable(s) 0.25...2.5 mm ² (AWG 22...AWG 14) flexible with cable end
Width	25 mm
Height	118 mm
Depth	114 mm
Net weight	0.136 kg

Environment

Ambient air temperature for storage	-25...70 °C
Ambient air temperature for operation	-10...60 °C
Relative humidity	5...95 %
Operating altitude	0...2000 m without derating
IP degree of protection	IP20
Pollution degree	2
Protective treatment	TC
Fire resistance	960 °C conforming to UL 94
Shock resistance	15 gn (duration = 11 ms) conforming to IEC 60068-2-27
Vibration resistance	1.5 mm peak to peak (f= 3...13 Hz) conforming to IEC 60068-2-6 1 gn (f= 13...200 Hz) conforming to IEC 60068-2-6
Electromagnetic compatibility	Electrostatic discharge immunity test, level 3, 8 kV air, 6 kV contact, conforming to EN/IEC 61000-4-2 Radiated RF fields, level 3, 10 V/m, conforming to EN/IEC 61000-4-3 Fast transients immunity test, level 3, 2 kV, conforming to EN/IEC 61000-4-4 Surge immunity test (common mode), level 3, 2 kV, conforming to EN/IEC 61000-4-5

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	255.0 g
Package 1 Height	6.5 cm
Package 1 width	13.5 cm
Package 1 Length	15.5 cm
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Weight	4.782 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Package 3 Height	30 cm
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Offer Sustainability

Sustainable offer status	Green Premium product
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REACH Regulation	REACH Declaration
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EU RoHS Directive	Compliant EU RoHS Declaration
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Mercury free	Yes
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RoHS exemption information	Yes
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China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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Environmental Disclosure	Product Environmental Profile
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Circularity Profile	End of Life Information
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WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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Halogen content performance	Halogen free plastic parts product
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California proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
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Contractual warranty

Warranty	18 months
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