

# 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

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

## Environment

<b>Ambient air temperature for storage</b>	-25...70 °C
<b>Ambient air temperature for operation</b>	-10...60 °C
<b>Relative humidity</b>	5...95 %
<b>Operating altitude</b>	0...2000 m without derating
<b>IP degree of protection</b>	IP20
<b>Pollution degree</b>	2
<b>Protective treatment</b>	TC
<b>Fire resistance</b>	960 °C conforming to UL 94
<b>Shock resistance</b>	15 gn (duration = 11 ms) conforming to IEC 60068-2-27
<b>Vibration resistance</b>	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
<b>Electromagnetic compatibility</b>	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

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

Package 3 Height	30 cm
<b>Offer Sustainability</b>	
Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Halogen content performance	Halogen free plastic parts product
California proposition 65	WARNING: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
<b>Contractual warranty</b>	
Warranty	18 months