

TPRDG4X2

Digital IO module, TeSys island, 4 inputs, 2 outputs, 24VDC



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 19.2...28.8 V)
Discrete input current	7 mA 24 V
Input impedance	3.43 kOhm
Discrete input logic	Positive or negative, 0...5 V, 15...28.8 V
Discrete output number	2 isolated with common point
Discrete output logic	Source or sink
Discrete output voltage	24 V DC 19.2...28.8 V)
Discrete output current	0.5 A maximum
Protection type	1 external fuse, 0.5 A fast each output
Response time	5 ms at 24 V digital input 5 ms at 24 V digital output
Local signalling	For DS (device status) 1 LED (green/red) 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) 1 LED (green)

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
[Uimp] rated impulse withstand voltage	0.5 kV IEC 61010-1
Standards	IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201
Product certifications	UL[RETURN]EAC (pending)[RETURN]CSA
Mounting mode	Horizontal and vertical 35 mm symmetrical rail)

Connections - terminals	Input/Output circuit removable spring terminal block 8 0.00...0.00 in ² (0.2...2.5 mm ²) AWG 24...AWG 14)rigid Input/Output circuit removable spring terminal block 8 0.00...0.00 in ² (0.2...2.5 mm ²) AWG 24...AWG 14)flexible without cable end Input/output circuit removable spring terminal block 8 0.00...0.00 in ² (0.25...2.5 mm ²) AWG 22...AWG 14)flexible with cable end
Width	0.98 in (25 mm)
Height	4.65 in (118 mm)
Depth	4.49 in (114 mm)
Net Weight	0.30 lb(US) (0.136 kg)

Environment

Ambient air temperature for storage	-13...158 °F (-25...70 °C)
Ambient Air Temperature for Operation	14...140 °F (-10...60 °C)
Relative Humidity	5...95 %
Operating altitude	0...6561.68 ft (0...2000 m) without derating
IP degree of protection	IP20
Pollution degree	2
Protective treatment	TC
Fire resistance	1760 °F (960 °C) UL 94
Shock resistance	15 gn 11 ms) IEC 60068-2-27
Vibration resistance	1.5 mm peak to peak 3...13 Hz) IEC 60068-2-6 1 gn 13...200 Hz) 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


Ordering and shipping details


Category	22353-TESYS ISLAND AUXILIARY DEVICES
Discount Schedule	I12
GTIN	3606489832896
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.56 in (6.5 cm)
Package 1 Width	5.31 in (13.5 cm)
Package 1 Length	6.10 in (15.5 cm)
Package 1 Weight	8.61 oz (244.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	11.81 in (30 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	10.33 lb(US) (4.684 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes

China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
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

Contractual warranty

Warranty	18 months
----------	-----------