

TPRDG4X2

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



Product availability: Stock - Normally stocked in distribution facility



Main

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|---------------------------|--|
| 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 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 | DS (device status) 1 LED green/red) I0 (input 1 status) 1 LED green) I1 (input 2 status) 1 LED green) I2 (input 3 status) 1 LED green) I3 (input 4 status) 1 LED green) Q0 (output 1 status) 1 LED green) Q1 (output 2 status) 1 LED green) |

Complementary

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|--|---|
| [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 EAC (pending) CSA |
| Mounting mode | Horizontal and vertical 35 mm symmetrical rail) |

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| 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

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| 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)EN/IEC 61000-4-2) Radiated RF fields, level 3 10 V/m)EN/IEC 61000-4-3) Fast transients immunity test, level 3 2 kV)EN/IEC 61000-4-4) Surge immunity test, level 3 2 kV)EN/IEC 61000-4-5) |

Ordering and shipping details

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| Category | 22353 - TESYS ISLAND AUXILIARY DEVICES |
| Discount Schedule | I12 |
| GTIN | 03606489832902 |
| Package weight(Lbs) | 0.24 kg (0.53 lb(US)) |
| Returnability | Yes |

Offer Sustainability

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|-----------------------------|--|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| 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

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| Warranty | 18 months |
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