# TPRDG4X2

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

Green Premium™

## 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<br>Enabling advanced control functions in a TeSys island system<br>Control of third parties power devices when associated to a TPRPM power module<br>Operational only when connected to a bus coupler TPRBC |
| Function of module | Control of 4 sink/source digital inputs with common point<br>Control of 2 sink/source digital outputs with common point |
| Product compatibility | TPRBC bus coupler<br>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<br>5 ms at 24 V for digital output |
| Local signalling | 1 LED (green/red) for DS (device status)<br>1 LED (green) for I0 (input 1 status)<br>1 LED (green) for I1 (input 2 status)<br>1 LED (green) for I2 (input 3 status)<br>1 LED (green) for I3 (input 4 status)<br>1 LED (green) for Q0 (output 1 status)<br>1 LED (green) for Q1 (output 2 status) |

## 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 conforming to IEC 61010-1 |
| Standards | IEC 61010-2-201<br>UL 61010-2-201<br>CSA C22.2 No 61010-2-201 |
| Product certifications | UL[RETURN]EAC (pending)[RETURN]CSA |

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| 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 mm² (AWG 24...AWG 14) rigid<br>Input/Output circuit: removable spring terminal block 8 cable(s) 0.2…2.5 mm² (AWG 24...AWG 14) flexible without cable end<br>Input/output circuit: removable spring terminal block 8 cable(s) 0.25…2.5 mm² (AWG 22...AWG 14) flexible with cable end |
| Width | 25 mm |
| Height | 118 mm |
| Depth | 114 mm |
| Net weight | 0.136 kg |

## Environment

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| 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<br>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<br>Radiated RF fields, level 3, 10 V/m, conforming to EN/IEC 61000-4-3<br>Fast transients immunity test, level 3, 2 kV, conforming to EN/IEC 61000-4-4<br>Surge immunity test (common mode), level 3, 2 kV, conforming to EN/IEC 61000-4-5 |

## Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 6.5 cm |
| Package 1 Width | 13.5 cm |
| Package 1 Length | 15.5 cm |
| Package 1 Weight | 244.0 g |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 16 |
| Package 2 Height | 30 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 4.684 kg |

## Offer Sustainability

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| Sustainable offer status | Green Premium product |
| 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 |

Life Is On | Schneider Electric

## Contractual warranty

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| Warranty | 18 months |