

# Product datasheet

Specifications



## Digital IO module. TeSys island. 4 inputs. 2 outputs

TPRDG4X2

Price: 3,488.64 ZAR

### 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<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

|                                        |                                     |
|----------------------------------------|-------------------------------------|
| [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    |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

|                         |                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards               | IEC 61010-2-201<br>UL 61010-2-201<br>CSA C22.2 No 61010-2-201                                                                                                                                                                                                                                                                                                      |
| Product Certifications  | UL<br>EAC (pending)<br>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 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

|                                       |                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

|                              |         |
|------------------------------|---------|
| 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 |
|------------------|----------|

## Contractual warranty

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

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

## Well-being performance

|   |                                    |     |
|---|------------------------------------|-----|
| ✓ | Mercury Free                       |     |
| ✓ | RoHS Exemption Information         | Yes |
| ✓ | Halogen Free Plastic Parts Product |     |

## Certifications & Standards

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                           |
| Eu RoHS Directive        | Compliant with Exemptions                                                                                                   |
| China RoHS Regulation    | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                                               |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                     |