PLC System Cabling

# Interfaces and Pre-assembled cables for Schneider TM3

Weidmüller

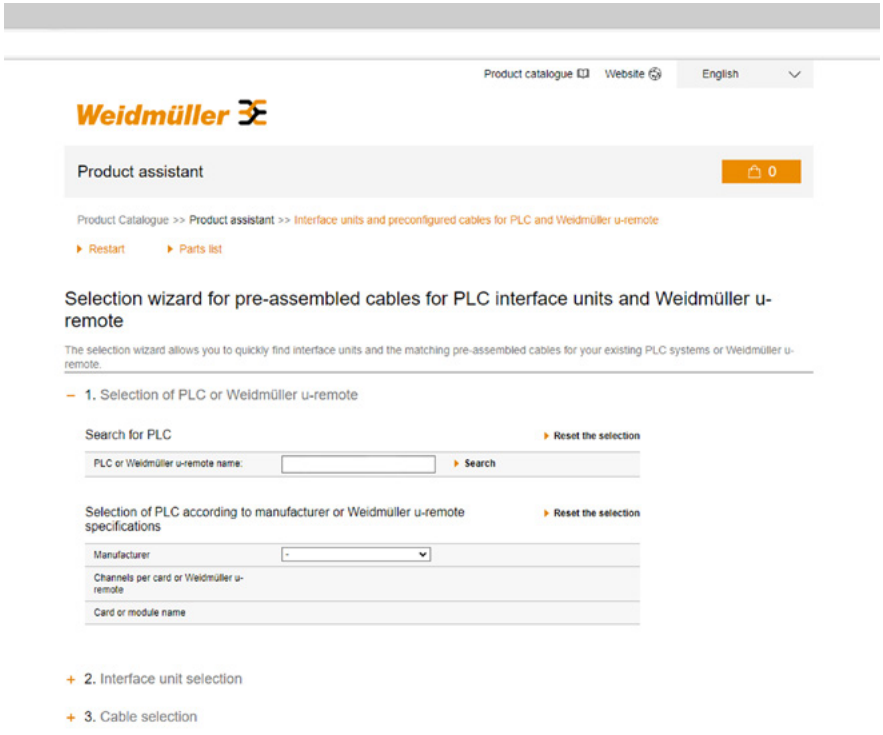
# Universal solutions for PLC input/output cards

Aimed at reducing costs, and to save space and time in the construction of electrical cabinets, the universal cabling system for PLCs is provided as an effective alternative to end-to-end cabling design. Weidmüller offers a wide range of pre-assembled cables and interfaces:

- The interfaces are used as an interconnection element between the control and the process, and are supplied with tension clamp or screw connection. Those interfaces, with a compact design, provide different functions such as LEDs, fuses, disconnectors or relays.
- The pre-assembled cables are supplied with the manufacturer's own connector at one end and are available in different lengths.

**Product Finder and automatic selection guides:**
To help you choose the right products for your application, Weidmüller offers this **Product finder** with a selection table which can be found on the following pages.

In addition, on our website, we have an automatic selection guide, using intuitive software that can help you to choose the appropriate interface cable for your Input/Output cards. This can be found at **www.weidmueller.com**




**Acces to Weidmüller Product Finder:**
http://galaxy.weidmueller.com/wi_plc

# Interfaces and Pre-assembled cables for Schneider TM3

The following selection tables help you to choose the pre-assembled cables

**1. Select the PLC card from the corresponding table**
For example: TM3DI16 / TM3DI16G

**2. Check the code of the cable to be ordered:**
- Cable code 2857920xxx
- Quantity: 1 unit (by card)

The last 3 digits indicate the length:
For example, 015 indicates 1.5 m

**3. Locate the module family and the quantity required**
Example:
- H2016 System Quantity: 1 unit (by card)

or
- I2016 System Quantity: 1 unit (by card)

Take the notes into account (if there are any)

**4.** Once the module family is chosen (step 3 – eg H2016), search it in the Interface selection tables and choose the proper interface according to the need of the application: 1, 2 or 3 wires, screw or tension clamp connection, with fuse, LED, switch

In the case that an input/output card does not appear in this table, you can check our on-line PLC selection guide at www.weidmueller.com where you will always find the most up-to-dated information.

| | PLC | | Cables | | Interfaces | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Input/Output cards | | Standard | | Direct inputs/outputs | | Insulated inputs | | Insulated outputs | |
| | Manufacturer code | Number/Type of channels | Order No. | Quantity | Type | Quantity | Type | Quantity | Type | Quantity |
| DI | TM3DI8A | 8DI | 2858220xxx | 1 | R2416 | 1 | | | | |
| | TM3DI8 / TM3DI8G | 8DI, positive logic | 2857910xxx | 1 | H2008 | 1 | I2016 | 1 | | |
| | TM3DI16 / TM3DI16G | 16DI, positive logic | 2857920xxx | 1 | H2016 | 1 | I2016 | 1 | | |
| | TM3DI16K | 16DI, positive logic | 2534060xxx | 1 | H2016 | 1 | I2016 | 1 | | |
| | TM3DI32K | 32DI, positive logic | 2534060xxx | 2 | H2016 | 2 | I2016 | 2 | | |
| DO | TM3DQ8R / TM3DQ8RG [B] | 8DO, positive logic | 2857930xxx | 1 | H2008 | 1 | | | O2008 | 1 |
| | TM3DQ8T / TM3DQ8TG | 8DO | 2857940xxx | 1 | H2008 | 1 | | | O2008 | 1 |
| | TM3DQ8U / TM3DQ8UG [A] | 8DO | 2857950xxx | 1 | H2008 | 1 | | | O2008N | 1 |
| | TM3DQ16R / TM3DQ16RG [B] | 16DO, positive logic | 2857960xxx | 1 | H2016 | 1 | | | O2016 | 1 |
| | TM3DQ16T / TM3DQ16TG | 16DO | 2857970xxx | 1 | H2016 | 1 | | | O2016 | 1 |
| | TM3DQ16U / TM3DQ16UG [A] | 16DO | 2858090xxx | 1 | H2016 | 1 | | | O2016N | 1 |
| | TM3DQ16TK | 16DO | 7789329xxx | 1 | H2016 | 1 | | | O2016 | 1 |
| | TM3DQ16UK [A] | 16DO | 2858110xxx | 1 | H2016 | 1 | | | O2016N | 1 |
| | TM3DQ32TK | 32DO | 7789329xxx | 2 | H2016 | 2 | | | O2016 | 2 |
| | TM3DQ32UK [A] | 32DO | 2858110xxx | 2 | H2016 | 2 | | | O2016N | 2 |
| DI/DO | TM3DM24R / TM3DM24RG [B] | 16DI | 2858120xxx | 1 | H2016 | 1 | I2016 | 1 | | |
| | | 8DO, positive logic | 2857930xxx | 1 | H2008 | 1 | | | O2008 | 1 |
| AI | TM3AI2H / TM3AI2HG | 2AI | 2858130xxx | 1 | A1504 | 1 | | | | |
| | TM3AI4 / TM3AI4G | 4AI | 2858140xxx | 1 | A1504 | 1 | | | | |
| | TM3AI8 / TM3AI8G | 8AI | 2858150xxx | 1 | A2508 | 1 | | | | |
| | TM3TI4 / TM3TI4G | 4AI | 2858140xxx | 1 | A1504 | 1 | | | | |
| AO | TM3AQ2 / TM3AQ2G | 2AO | 2858160xxx | 1 | A1504 | 1 | | | | |
| | TM3AQ4 / TM3AQ4G | 4AO | 2858170xxx | 1 | A1504 | 1 | | | | |
| AI/O | TM3AM6 / TM3AM6G | 4AI | 2858180xxx | 1 | A2508 | 1 | | | | |
| | | 2AO | | | | | | | | |
| | TM3TM3 / TM3TM3G | 2AI | 2858190xxx | 1 | A1504 | 1 | | | | |
| | | 1AO | | | | | | | | |
| Note | A) Attention! Only use interfaces without LEDs<br>B) Only possible if configured at 24 V DC | | | | | | | | | |

- Please, always take into account the characteristics of the PLC card (voltage, current...) when selecting interfaces. In some cases, the card can work at higher voltages than those indicated in the interface.
- The interfaces are intended to be used inside an IP20 enclosure at least.
- The last 3 digits of the cable code indicate its length in decimetres. For example, if the code ends in 100, the cable would be 10 m long.

* In the case that an input/output card does not appear in this table, you can check our on-line PLC selection guide at www.weidmueller.com where you will always find the most up-to-date information.

# Selection table for digital input/output cards with direct wiring interfaces

## H20

### 1:1

- 20-pole ribbon connector
- Connection 1 to 1

| | Screw | T. clamp |
|---|---|---|
| without LED | 0224261001 | 8537110000 |

## H2008

### 2 wires

- 8 channels
- 20-pole ribbon connector
- Direct wiring

| | Screw | T. clamp |
|---|---|---|
| with LED | 9445530000 | on demand |

## R1208

### 2 wires

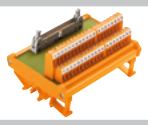
- 8 channels
- 12-poles RSV connector
- Direct wiring

| | Screw | T. clamp |
|---|---|---|
| without LED | 9441540000 | on demand |

## H40

### 1:1

- 40-pole ribbon connector
- Connection 1 to 1



| | Screw | T. clamp |
|---|---|---|
| without LED | 0224461001 | 8537140000 |

## H2016

### 1 wire

- 16-channel
- 20-pole ribbon connector
- Direct wiring

| | Screw | T. clamp |
|---|---|---|
| without LED | 9445700000 | 1311750000 |
| with LED | 9445710000 | 1311770000 |

### 1 wire

- 16-channel
- 20-pole ribbon connector
- Disconnector

| | Screw | T. clamp |
|---|---|---|
| with LED | 9445810000 | 1311780000 |

### 2 wires

- 16-channel
- 20-pole ribbon connector
- Direct wiring

| | Screw | T. clamp |
|---|---|---|
| without LED | 9445720000 | 1311790000 |
| with LED | 9445730000 | 1311800000 |

### 2 wires

- 16-channel
- 20-pole ribbon connector
- Disconnector

| | Screw | T. clamp |
|---|---|---|
| without LED | 1311810000 | 1311820000 |
| with LED | 9445750000 | 1311830000 |

### 2 wires

- 16-channel
- 20-pole ribbon connector
- Fus

| | Screw | T. clamp |
|---|---|---|
| without LED | 9445820000 | 1311840000 |
| with LED | 1311850000 | 1311870000 |

### 3 wires

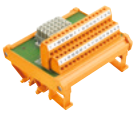
- 16-channel
- 20-pole ribbon connector
- Direct wiring

| | Screw | T. clamp |
|---|---|---|
| without LED | 9445760000 | 1311880000 |
| with LED | 9445770000 | 1311890000 |

## R2416

### 1 wire

- 16-channel
- 24-pole RSV connector
- Direct wiring



| | Screw | T. clamp |
|---|---|---|
| without LED | 9441500000 | On demand |

### 1 wire

- 16-channel
- 24-pole RSV connector
- Disconnector

| | Screw | T. clamp |
|---|---|---|
| without LED | 9441860000 | On demand |

### 2 wires

- 16-channel
- 24-pole RSV connector
- Direct wiring

| | Screw | T. clamp |
|---|---|---|
| without LED | 9441700000 | On demand |

### 2 wires

- 16-channel
- 24-pole RSV connector
- Fus

| | Screw | T. clamp |
|---|---|---|
| without LED | 9441560000 | On demand |

### 3 wires

- 16-channel
- 24-pole RSV connector
- Disconnector

| | Screw | T. clamp |
|---|---|---|
| without LED | 9441600000 | On demand |

## R3632

### 1 wire

- 32-channel
- 36-pole RSV connector
- Direct wiring

| | Screw | T. clamp |
|---|---|---|
| without LED | 9441510000 | On demand |

### 1 wire

- 32-channel
- 36-pole RSV connector
- Disconnector

| | Screw | T. clamp |
|---|---|---|
| without LED | 9441870000 | On demand |

### 2 wire

- 32-channel
- 36-pole RSV connector
- Direct wiring

| | Screw | T. clamp |
|---|---|---|
| without LED | 9441710000 | On demand |

### 2 wires

- 32-channel
- 36-pole RSV connector
- Fus

| | Screw | T. clamp |
|---|---|---|
| without LED | 9441570000 | On demand |

# Selection table for analogue input/output cards with direct wiring interfaces

## A15

**1:1**

- 15-pole male, Sub-D connector
- Connection 1 to 1

| | Screw | T. clamp |
|---|---|---|
| without LED | 8005201001 | 8537390000 |

## A1504

- 4 channels
- 15-pole male, Sub-D connector
- Direct wiring

| | Screw | T. clamp |
|---|---|---|
| without LED | 9448000000 | 1308230000 |

- 4 channels
- 15-pole male, Sub-D connector
- Test point and disconnector

| | Screw | T. clamp |
|---|---|---|
| without LED | 9448100000 | 1308240000 |

## A25

**1:1**

- 25-pole male, Sub-D connector
- Connection 1 to 1

| | Screw | T. clamp |
|---|---|---|
| without LED | 8005181001 | 8537370000 |

## A2508

- 8 channels
- 25-pole male, Sub-D connector
- Direct wiring

| | Screw | T. clamp |
|---|---|---|
| without LED | 9448010000 | 1308250000 |

- 8 channels
- 25-pole male, Sub-D connector
- Test point and disconnector

| | Screw | T. clamp |
|---|---|---|
| without LED | 9448110000 | 9449110000 |

## A37

**1:1**

- 37-pole male, Sub-D connector
- Connection 1 to 1

| | Screw | T. clamp |
|---|---|---|
| without LED | 8003881001 | 8537240000 |

## A3716

- 16 channels
- 37-pole male, Sub-D connector
- Direct wiring

| | Screw | T. clamp |
|---|---|---|
| without LED | 9448020000 | 1308270000 |

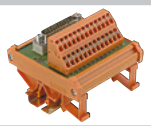
- 16 channels
- 37-pole male, Sub-D connector
- Test point and disconnector

| | Screw | T. clamp |
|---|---|---|
| without LED | 9448120000 | 1308280000 |

## A50

**1:1**

- 50-pole male, Sub-D connector
- Connection 1 to 1



| | Screw | T. clamp |
|---|---|---|
| without LED | 8005161001 | 8537350000 |

## A2508P

- 8 channels
- 25-pole male, Sub-D connector
- Voltage/current configuration

| | Screw | T. clamp |
|---|---|---|
| without LED | 9448030000 | On demand |

## Selection table for digital input cards with isolated interfaces

### I2016

**Slim relay 1CO 6A**

- 16-channel
- 20-pole ribbon connector
- Gold contact relay

| | Screw | T. clamp |
|---|---|---|
| 24 V DC Input | 1312000000 | 1312010000 |
| 48 V DC Input | 1312020000 | |

## Selection table for digital output cards with isolated interfaces

### O2008

**Slim relay 1CO 6A**

- 8-channel
- 20-pole ribbon connector
- 1 Changeover

| | Screw | T. clamp |
|---|---|---|
| without SWITCH | 1456540000 | 1456570000 |
| with SWITCH | 1128990000 | 1129000000 |

**Relay 1CO 16A**

- 8-channel
- 20-pole ribbon connector
- 1 Changeover

| | Screw | T. clamp |
|---|---|---|
| without SWITCH | 9445000000 | 9447000000 |

### O2016 (positive switching)

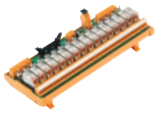
**Slim relay 1CO 6A**

- 16-channel
- 20-pole ribbon connector
- 1 Changeover

| | Screw | T. clamp |
|---|---|---|
| without SWITCH | 1457300000 | 1457320000 |
| with SWITCH | 1129030000 | 1129040000 |

**Relay 1CO 16A**

- 16-channel
- 20-pole ribbon connector
- 1 Changeover



| | Screw | T. clamp |
|---|---|---|
| without SWITCH | 1448280000 | 1448300000 |
| with SWITCH | 1129120000 | 1129130000 |

**Relay 1CO 16A**

- 16-channel
- 20-pole ribbon connector
- 1 Changeover

| | Screw | T. clamp |
|---|---|---|
| without SWITCH | 9445100000 | 9447100000 |

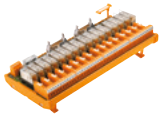
**Relay 1CO 16A + Fus**

- 16-channel
- 20-pole ribbon connector
- 1 changeover with fus

| | Screw | T. clamp |
|---|---|---|
| without SWITCH | 9445120000 | 9447120000 |

**Relay 1CO 16A + Disconnectors**

- 16-channel
- 2x 20-pole ribbon connector
- 1 changeover with disconnector



| | Screw | T. clamp |
|---|---|---|
| without SWITCH | 1431720000 | On demand |

**Relay 2CO 8A**

- 16-channel
- 20-pole ribbon connector
- 2 Changeover

| | Screw | T. clamp |
|---|---|---|
| without SWITCH | 1449210000 | 1449230000 |

### O2016N (Negative switching)

**Slim relay 1CO 6A**

- 16-channel
- 20-pole ribbon connector
- 1 Changeover

| | Screw | T. clamp |
|---|---|---|
| without SWITCH | 1457310000 | 1457330000 |

**Relay 1CO 16A**

- 16-channel
- 20-pole ribbon connector
- 1 Changeover

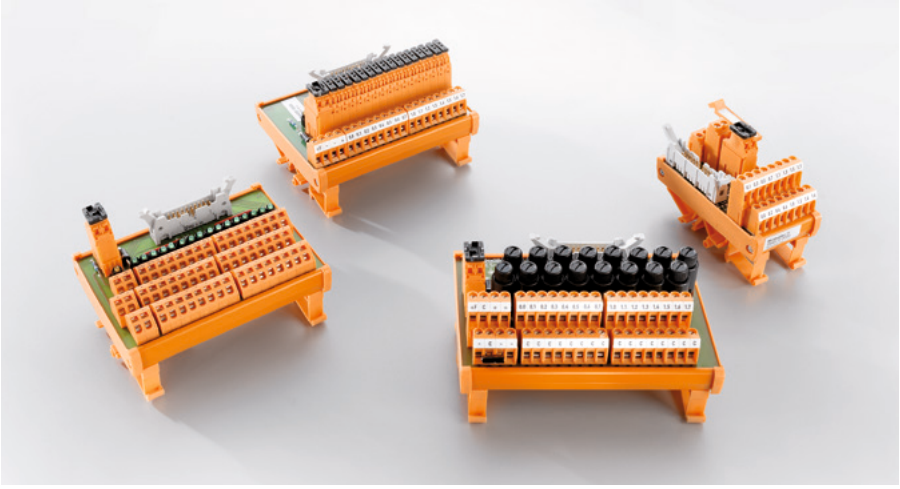
| | Screw | T. clamp |
|---|---|---|
| without SWITCH | 1448290000 | 1448310000 |

**Relay 2CO 8A**

- 16-channel
- 20-pole ribbon connector
- 2 Changeover

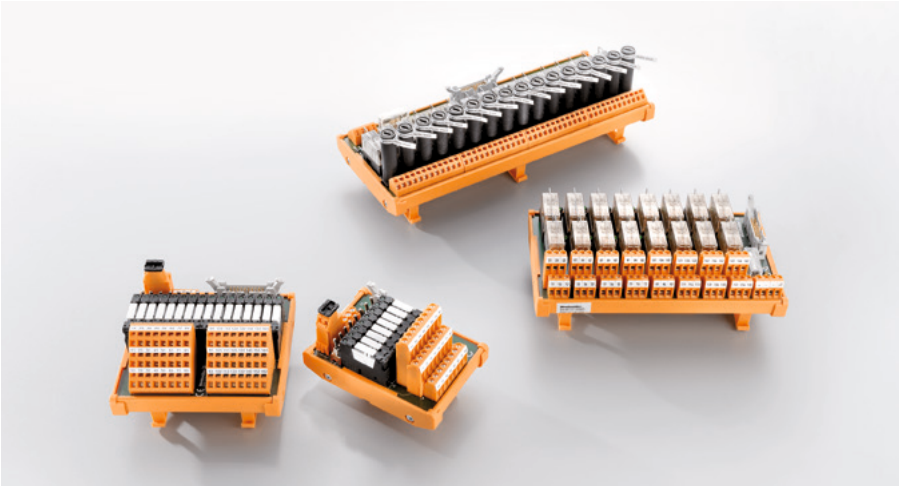
| | Screw | T. clamp |
|---|---|---|
| without SWITCH | 1449220000 | 1449250000 |

# Main advantages



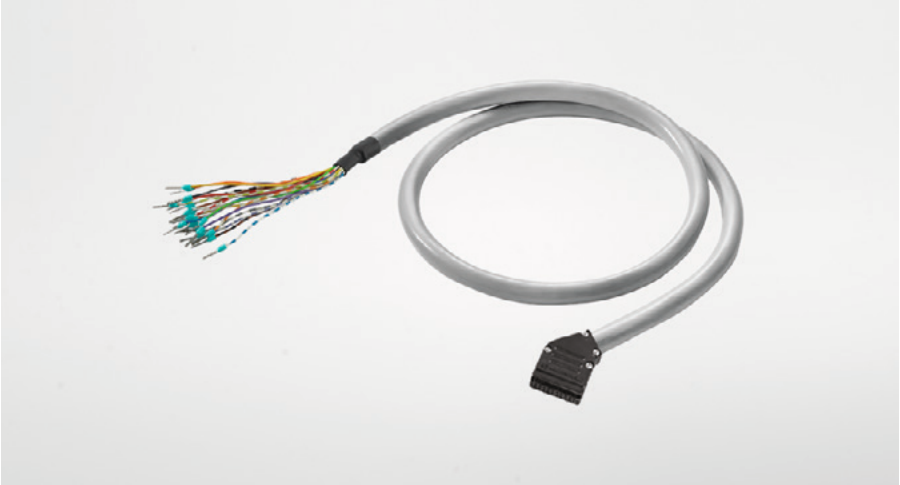
**Wide range of passive interfaces**
The range includes passive input/output interfaces for digital and analogue signals. The interfaces are available in screw or tension clamp connection and the sensors/actuators can be connected with 1, 2 or 3 wires, whichever is needed. You can also choose from a large variety of functions:

- LED indication
- Fuse
- Disconnectors
- Test points



**Wide range of relay insulated interfaces**
Available in versions with 8-12 and 16 relays, the RSM family offers the possibility of insulating digital signals both in input and output cards. Options include our compact format (6 mm relays) or standard (RCL relay), with additional features including:

- Switch in coil and contact
- Fuse in contact
- 1 or 2 CO contacts



**Guaranteed connection**
The original PLC connector is on one end of the cable and standard connectors are on the other end: ribbon cable with fixing housing for digital signals and SUB-D connector for analogue signals. Available in different lengths.

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