

# IB IL TEMP 2 RTD-PAC

Order No.: 2861328



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Inline analog input terminal block, complete with accessories  
(connector and labeling field), 2 inputs, RTD (resistance temperature  
detector), 2, 3, 4-wire connection method

## Commercial data

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 894269 |
| sales group              | K412                                                                                                   |
| Pack                     | 1 pcs.                                                                                                 |
| Customs tariff           | 85389091                                                                                               |
| Catalog page information | Page 285 (AX-2009)                                                                                     |

## Product notes

WEEE/RoHS-compliant since:  
07/23/2007



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www.download.phoenixcontact.com](http://www.download.phoenixcontact.com)  
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## Product description

Using these analog input terminals, it is possible to measure signals from conventional thermocouples and resistance thermometers.

The terminals are configured for connection to various types of sensors. The user can configure the different sensor characteristic curves himself via process data. It is thus possible to attain the best possible adaptations in very different applications.

The Inline terminals can be labeled using hinged labeling fields. The fields have insert cards that can be labeled individually to suit the application. Additionally, there is the proven ZBFM-6... Zack strip for labeling the terminal points.

#### Technical data

##### General data

|                                          |                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------|
| Width                                    | 12.2 mm                                                                        |
| Height                                   | 136.8 mm                                                                       |
| Depth                                    | 71.5 mm                                                                        |
| Weight                                   | 67 g                                                                           |
| Mounting type                            | DIN rail                                                                       |
| Ambient temperature (operation)          | -25 °C ... 55 °C                                                               |
| Ambient temperature (storage/transport)  | -25 °C ... 85 °C                                                               |
| Permissible humidity (operation)         | 10 % ... 95 % (according to DIN EN 61131-2)                                    |
| Permissible humidity (storage/transport) | 10 % ... 95 % (according to DIN EN 61131-2)                                    |
| Air pressure (operation)                 | 70 kPa ... 106 kPa (up to 3000 m above sea level)                              |
| Air pressure (storage/transport)         | 70 kPa ... 106 kPa (up to 3000 m above sea level)                              |
| Degree of protection                     | IP20                                                                           |
| Protection class                         | III, IEC 61140, EN 61140, VDE 0140-1                                           |
| Test section                             | 7.5 V supply (bus logics)/24 V analog supply (analog I/O) 500 V AC 50 Hz 1 min |
|                                          | 7.5 V supply (bus logics) / functional earth ground 500 V AC 50 Hz 1 min       |
|                                          | 24 V analog supply (analog I/O) / functional earth ground 500 V AC 50 Hz 1 min |

##### Interface

|                      |                    |
|----------------------|--------------------|
| Name                 | Inline local bus   |
| Type of connection   | Inline data jumper |
| Transmission speed   | 500 kbps           |
|                      | 500 kBit/s         |
| Transmission physics | Copper             |

##### Inline potential routing

|                                |                               |
|--------------------------------|-------------------------------|
| Communications power $U_L$     | 7.5 V DC (via voltage jumper) |
| Current consumption from $U_L$ | max. 60 mA                    |
|                                | Typ. 43 mA                    |
| I/O supply voltage $U_{ANA}$   | 24 V DC                       |

|                                    |             |
|------------------------------------|-------------|
| Current consumption from $U_{ANA}$ | max. 18 mA  |
|                                    | Typ. 11 mA  |
| Power consumption                  | Typ. 587 mW |
|                                    | max. 882 mW |

#### Analog inputs

|                                     |                                         |
|-------------------------------------|-----------------------------------------|
| Number of inputs                    | 2                                       |
| Input name                          | Analog RTD inputs                       |
| Description of the input            | Input for resistive temperature sensors |
| Type of connection                  | Spring-cage connection                  |
| Connection method                   | 2, 3-conductor                          |
| Sensor types (RTD) that can be used | Pt, Ni, Cu, KTY, linear resistors       |
| Linear resistance measuring range   | 0 $\Omega$ ... 400 $\Omega$             |
|                                     | 0 $\Omega$ ... 4 k $\Omega$             |
| Measuring principle                 | Successive approximation                |
| Measured value representation       | 16 bits two's complement and other      |
| A/D conversion time                 | Typ. 120 $\mu$ s (per channel)          |
| Resolution A/D                      | 16 bit (15 bit + sign bit)              |
| Process data update                 | 30 ms                                   |

#### Certificates / Approvals



Certification ABS, BV, CUL, CUL Listed, DNV, GL, GOST, LR, UL

Certification Ex: CUL-EX LIS, PxC-EX, UL-EX LIS

#### Accessories

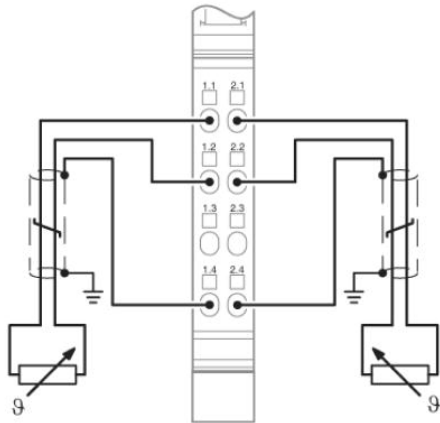
| Item           | Designation   | Description                                                 |
|----------------|---------------|-------------------------------------------------------------|
| <b>Marking</b> |               |                                                             |
| 0809492        | ESL 62X10     | Insert strip for laser printer, lettering field: 62 x 10 mm |
| 2727501        | IB IL FIELD 2 | Labeling field, width: 12.2 mm                              |

#### Plug/Adapter

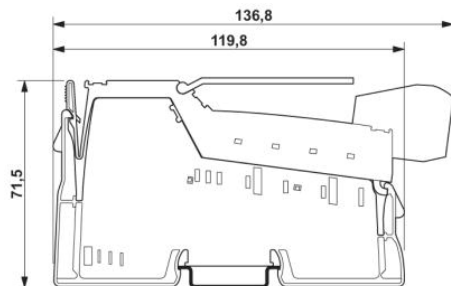
|         |                         |                         |
|---------|-------------------------|-------------------------|
| 2740245 | IB IL SCN 6-SHIELD-TWIN | Inline shield connector |
| 2726353 | IB IL SCN-6 SHIELD      | Inline shield connector |

#### Diagrams/Drawings

##### Connection diagram



##### Dimensioned drawing



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