

# PLC-OSC- 24DC/ 48DC/100

Order No.: 2966728



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PLC interface, consisting of base terminal block PLC-BSC with screw connection and pluggable miniature optocoupler, for mounting on DIN rail NS 35/7.5, input: 24 V DC, output: 3-48 V DC/ 100 mA



## Commercial data

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 017918 130565 |
| Pack                     | 10                                                                                                     |
| Customs tariff           | 85364190                                                                                               |
| Country of Origin        | DE                                                                                                     |
| Catalog page information | Page 84 (IF-2011)                                                                                      |

## Product notes

WEEE/RoHS-compliant since:  
26/10/2006



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## Technical data

### Input data

|                                                      |             |
|------------------------------------------------------|-------------|
| Nominal input voltage $U_N$                          | 24 V DC     |
| Input voltage range in reference to $U_N$            | 0.8 ... 1.2 |
| Switching threshold "0" signal in reference to $U_N$ | $\leq 0.4$  |
| Switching threshold "1" signal in reference to $U_N$ | $\geq 0.8$  |

|                                |                                      |
|--------------------------------|--------------------------------------|
| Typical input current at $U_N$ | 8.5 mA                               |
| Typical response time          | 20 $\mu$ s (at $U_N$ )               |
| Typical turn-off time          | 300 $\mu$ s (at $U_N$ )              |
| Operating voltage display      | Yellow LED                           |
| Type of protection             | Protection against polarity reversal |
|                                | Free-wheeling diode                  |
| Protective circuit/component   | Polarity protection diode            |
|                                | Damping diode                        |
| Transmission frequency         | 300 Hz                               |

#### Output data

|                                                  |                                      |
|--------------------------------------------------|--------------------------------------|
| Output nominal voltage range                     | 3 V DC ... 48 V DC                   |
| Limiting continuous current                      | 100 mA                               |
| Voltage drop at max. limiting continuous current | $\leq 1$ V                           |
| Output circuit                                   | 2-wire, floating                     |
| Type of protection                               | Protection against polarity reversal |
|                                                  | Surge protection                     |
| Protective circuit/component                     | Polarity protection diode            |

#### Connection data

|                                        |                      |
|----------------------------------------|----------------------|
| Connection method                      | Screw connection     |
| Stripping length                       | 8 mm                 |
| Screw thread                           | M3                   |
| Conductor cross section solid min.     | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.     | 2.5 mm <sup>2</sup>  |
| Conductor cross section stranded min.  | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.  | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min. | 26                   |
| Conductor cross section AWG/kcmil max  | 14                   |

#### General data

|                                         |                  |
|-----------------------------------------|------------------|
| Width                                   | 6.2 mm           |
| Height                                  | 80 mm            |
| Depth                                   | 94 mm            |
| Ambient temperature (operation)         | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |
| Mounting position                       | Any              |

|                                         |                           |
|-----------------------------------------|---------------------------|
| Assembly instructions                   | In rows with zero spacing |
| Operating mode                          | 100% operating factor     |
| Inflammability class according to UL 94 | V0                        |
| Name                                    | Standards/regulations     |
| Standards/regulations                   | IEC 60664                 |
|                                         | EN 50178                  |
|                                         | IEC 62103                 |
| Rated surge voltage / insulation        | Basic insulation          |
| Pollution degree                        | 2                         |
| Surge voltage category                  | III                       |

#### Certificates



Certification

CUL, CUL Listed, GL, GOST, UL, UL Listed

#### Accessories

| Item            | Designation                  | Description                                                                                                                     |
|-----------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Assembly</b> |                              |                                                                                                                                 |
| 0801762         | NS 35/ 7,5 CU UNPERF 2000MM  | DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m                                               |
| 0801733         | NS 35/ 7,5 PERF 2000MM       | DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm |
| 0801681         | NS 35/ 7,5 UNPERF 2000MM     | DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m                                                |
| 0801377         | NS 35/ 7,5 V2A UNPERF 2000MM | DIN rail, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver                                                          |
| 1201756         | NS 35/15 AL UNPERF 2000MM    | DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm   |
| 1201895         | NS 35/15 CU UNPERF 2000MM    | DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m                                  |
| 1201730         | NS 35/15 PERF 2000MM         | DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm  |
| 1201714         | NS 35/15 UNPERF 2000MM       | DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m                                                 |

|         |                            |                                                                                                                                                                                                                                                        |
|---------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1201798 | NS 35/15-2,3 UNPERF 2000MM | DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m                                                                                                                                                          |
| 2966841 | PLC-ATP BK                 | Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation |

#### Bridges

|         |                 |                                                                          |
|---------|-----------------|--------------------------------------------------------------------------|
| 2966812 | FBST 6-PLC BU   | Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: blue |
| 2966825 | FBST 6-PLC GY   | Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: gray |
| 2966236 | FBST 6-PLC RD   | Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: red  |
| 2967688 | FBST 8-PLC GY   | Single plug-in bridge, Length: 8 mm, Number of positions: 2, Color: gray |
| 2966692 | FBST 500-PLC BU | Continuous plug-in bridge, Length: 500 mm, Color: blue                   |
| 2966838 | FBST 500-PLC GY | Continuous plug-in bridge, Length: 500 mm, Color: gray                   |
| 2966786 | FBST 500-PLC RD | Continuous plug-in bridge, Length: 500 mm, Color: red                    |

#### General

|         |                    |                                                                                                                                                                                               |
|---------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2966618 | OPT-24DC/ 48DC/100 | Pluggable miniature optocouplers, input optocouplers, input: 24 V DC, output: 3 - 48 V DC/ 100 mA                                                                                             |
| 2966508 | PLC-ESK GY         | Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5                                                                                                       |
| 2296087 | PLC-V8/D15B/IN     | V8-INPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./ see "Additional Products"). 15-pin D-SUB female connector, control logic: Positive switching                                   |
| 2296061 | PLC-V8/D15B/OUT    | V8-OUTPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Additional Products"). 15-pin D-SUB female connector, control logic: Positive switching                                   |
| 2296074 | PLC-V8/D15S/IN     | V8-INPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./ see "Additional Products"). 15-pin D-SUB male connector, control logic: Positive switching                                     |
| 2296058 | PLC-V8/D15S/OUT    | V8-OUTPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Additional Products"). 15-pin D-SUB male connector, control logic: Positive switching                                     |
| 2296553 | PLC-V8/FLK14/IN    | V8L-INPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Supplementary Products"). 14-pos. flat-ribbon cable connection for the PLC system cabling, control logic: Plus switching  |
| 2304115 | PLC-V8/FLK14/IN/M  | V8L-INPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Supplementary Products"). 14-pos. flat-ribbon cable connection for the PLC system cabling, control logic: Minus switching |

|         |                    |                                                                                                                                                                                               |
|---------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2295554 | PLC-V8/FLK14/OUT   | V8-OUTPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Supplementary Products"). 14-pos. flat-ribbon cable connection for the PLC system cabling, control logic: Plus switching  |
| 2304102 | PLC-V8/FLK14/OUT/M | V8-OUTPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Supplementary Products"). 14-pos. flat-ribbon cable connection for the PLC system cabling, control logic: Minus switching |

#### Marking

|         |                       |                                                                                                                                               |
|---------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1051016 | ZB 6,LGS:FORTL.ZAHLEN | Zack marker strip, 10-section, printed horizontally: with the numbers 1 - 10, 11 - 20 and so on up to 491 - 500, color: white                 |
| 1051003 | ZB 6:UNBEDRUCKT       | Zack strip, unprinted, strips with 10 labels for individual labeling with M-PEN or CMS system, for terminal block width: 6.2 mm, color: white |

#### Relay base

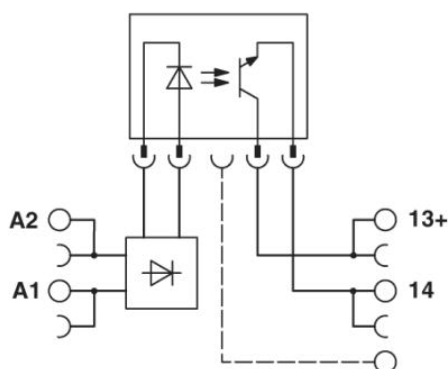
|         |                  |                                                                                                                    |
|---------|------------------|--------------------------------------------------------------------------------------------------------------------|
| 2966016 | PLC-BSC- 24DC/21 | 6.2 mm PLC basic terminal blocks with screw connection method, input voltage 24 V DC(without relay or optocoupler) |
|---------|------------------|--------------------------------------------------------------------------------------------------------------------|

#### Tools

|         |               |                                                                                                                                                       |
|---------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1204517 | SZF 1-0,6X3,5 | Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip |
|---------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Drawings

Circuit diagram



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