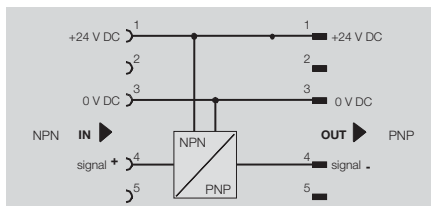


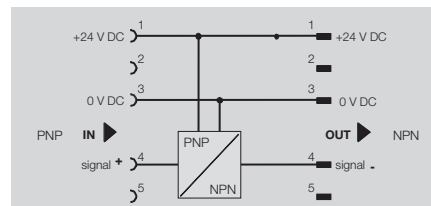
**Signal inverter**

Signal inverters convert PNP sensor signals to NPN signals and NPN signals back to PNP. Thus, existing circuits require no complex adaptation and the existing inputs on the I/O cards can be put to best use. This is particularly well suited for the Asian and North American markets.

**JPP NPN PNP 24 V DC**



**JPP PNP NPN 24 V DC**



**Technical data**

|  |                                 |
|--|---------------------------------|
| <b>Input</b>                               |                                 |
| Sensor                                     | 2-/ 3-Conductor Sensor NPN-type |
| Rated control voltage                      | 18...24...30 V DC               |
| Input current for sensor                   | < 200 mA                        |
| Type of contact                            | NO contact                      |
| <b>Output</b>                              |                                 |
| Solid-state type                           | Solid state relay               |
| Rated switching voltage                    | 18...30 V DC                    |
| Rated switching current                    | 400 mA                          |
| Voltage drop at max. load                  | ≤ 1 V                           |
| <b>Insulation coordination (EN 50 178)</b> |                                 |
| Rated voltage                              | 32 V                            |
| Impulse withstand voltage                  | 330 V                           |
| Overtoltage category                       | I                               |
| Pollution severity                         | 2                               |
| <b>General data</b>                        |                                 |
| operating temperature                      | 0 °C...+60 °C                   |
| Storage temperature                        | -20 °C...+85 °C                 |
| Conductor connection system                | M12 plug / socket, A-coded      |
| Approvals                                  | cULus; CE                       |

|  |                                 |
|--|---------------------------------|
| <b>Input</b>                               |                                 |
| Sensor                                     | 2-/ 3-Conductor Sensor PNP-Type |
| Rated control voltage                      | 18...24...30 V DC               |
| Input current for sensor                   | < 200 mA                        |
| Type of contact                            | NO contact                      |
| <b>Output</b>                              |                                 |
| Solid-state type                           | Solid state relay               |
| Rated switching voltage                    | 18...30 V DC                    |
| Rated switching current                    | 400 mA                          |
| Voltage drop at max. load                  | ≤ 1 V                           |
| <b>Insulation coordination (EN 50 178)</b> |                                 |
| Rated voltage                              | 32 V                            |
| Impulse withstand voltage                  | 330 V                           |
| Overtoltage category                       | I                               |
| Pollution severity                         | 2                               |
| <b>General data</b>                        |                                 |
| operating temperature                      | 0 °C...+60 °C                   |
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| Conductor connection system                | M12 plug / socket, A-coded      |
| Approvals                                  | cULus; CE                       |

|  |                                 |
|--|---------------------------------|
| <b>Input</b>                               |                                 |
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| Rated control voltage                      | 18...24...30 V DC               |
| Input current for sensor                   | < 200 mA                        |
| Type of contact                            | NO contact                      |
| <b>Output</b>                              |                                 |
| Solid-state type                           | Solid state relay               |
| Rated switching voltage                    | 18...30 V DC                    |
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| Pollution severity                         | 2                               |
| <b>General data</b>                        |                                 |
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| Conductor connection system                | M12 plug / socket, A-coded      |
| Approvals                                  | cULus; CE                       |

|  |                 |
|--|-----------------|
| <b>Dimensions</b>                      |                 |
| Clamping range (nominal / min. / max.) | mm <sup>2</sup> |
| Length x width x height                | mm              |
| <b>Note</b>                            |                 |

|  |                 |
|--|-----------------|
| <b>Dimensions</b>                      |                 |
| Clamping range (nominal / min. / max.) | mm <sup>2</sup> |
| Length x width x height                | mm              |
| <b>Note</b>                            |                 |

|  |                 |
|--|-----------------|
| <b>Dimensions</b>                      |                 |
| Clamping range (nominal / min. / max.) | mm <sup>2</sup> |
| Length x width x height                | mm              |
| <b>Note</b>                            |                 |

**Ordering data**

|                          |
|--------------------------|
| <b>Connection system</b> |
|--------------------------|

| Type              | Qty. | Order No.  |
|-------------------|------|------------|
| JPP NPN PNP 24VDC | 1    | 8852350000 |

| Type              | Qty. | Order No.  |
|-------------------|------|------------|
| JPP PNP NPN 24VDC | 1    | 8857030000 |

|             |
|-------------|
| <b>Note</b> |
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| <b>Note</b> |
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|             |
|-------------|
| <b>Note</b> |
|-------------|

**Accessories**

|                    |
|--------------------|
| <b>Accessories</b> |
|--------------------|

|   |
|---|
| Retaining clip<br>JP CLIP M: 8778490000 |
|---|

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|---|
| Retaining clip<br>JP CLIP M: 8778490000 |
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