

# PSR-M-GW-CCLINK-SC - Data interface



1105128

<https://www.phoenixcontact.com/us/products/1105128>

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Gateway for connecting a PSR-M base module to a higher-level controller, CC-link, TBUS interface, plug-in screw terminal block, TBUS connector included

## Product description

The configurable and individually scalable PSRmodular safety system is a flexible safety solution for monitoring your machine or system. PSRmodular gateways connect a PSR-M basic module to a higher-level controller. This gateway is intended for use with CC-Link.

## Your advantages

- Cost-effective safety solution with a high level of adaptability to individual requirements
- Fast startup, thanks to easy hardware and software configuration
- Machine downtimes minimized with comprehensive, easy-to-understand diagnostics
- Low housing width of just 22.6 mm

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1105128       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN02          |
| Product key                          | DNA365        |
| GTIN                                 | 4055626975177 |
| Weight per piece (including packing) | 173 g         |
| Weight per piece (excluding packing) | 131 g         |
| Customs tariff number                | 85371098      |
| Country of origin                    | IT            |

## Technical data

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

### Product properties

|              |                  |
|--------------|------------------|
| Product type | Gateways/Proxies |
|--------------|------------------|

#### Insulation characteristics

|                  |                |
|------------------|----------------|
| Protection class | III (EN 50178) |
|------------------|----------------|

#### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 2  |

### Electrical properties

|                                                 |                                                                         |
|-------------------------------------------------|-------------------------------------------------------------------------|
| Maximum power dissipation for nominal condition | 0.75 W                                                                  |
| Nominal operating mode                          | 100% operating factor                                                   |
| Interfaces                                      | DIN rail TBUS for connection to the master module, supplied as standard |
| Rated surge voltage/insulation                  | Basic insulation 4 kV                                                   |

### Supply

|                                            |                                                          |
|--------------------------------------------|----------------------------------------------------------|
| Designation                                | A1/A2                                                    |
| Rated control circuit supply voltage $U_S$ | 19.2 V DC ... 28.8 V DC                                  |
| Rated control circuit supply voltage $U_S$ | 24 V DC -20 % / +20 % (external fuse, typically 4 A)     |
| Rated control supply current $I_S$         | typ. 30 mA (without network connection)                  |
|                                            | typ. 30 mA (1 network connection)                        |
| Power consumption at $U_S$                 | typ. 0.75 W (1 network connection)                       |
| Inrush current                             | < 2.2 A ( $\Delta t = 1$ ms at $U_S$ )                   |
| Filter time                                | typ. 5 ms (at A1 in the event of voltage dips at $U_S$ ) |
| Protective circuit                         | Serial protection against polarity reversal              |
|                                            | Suppressor diode                                         |

### Connection data

|                   |                  |
|-------------------|------------------|
| Connection method | Screw connection |
| Stripping length  | 7 mm             |
| Tightening torque | 0.5 ... 0.6 Nm   |
| Screw thread      | M3               |

### Interfaces

#### Data: Network interface

|                        |             |
|------------------------|-------------|
| Communication protocol | CC-Link V 2 |
|------------------------|-------------|

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|                       |                      |
|-----------------------|----------------------|
| Connection method     | Connector            |
| Number of connections | 1                    |
| Number of positions   | 5                    |
| Note                  | Electrical isolation |
| Transmission speed    | 10 Mbps              |
|                       | 5 Mbps               |
|                       | 2.5 Mbps             |
|                       | 625 kbps             |
|                       | 156 kbps             |

## Data: Service interface

|                       |                  |
|-----------------------|------------------|
| Connection method     | USB 2.0 Hi-Speed |
| Number of connections | 1                |
| Maximum cable length  | 3 m              |

## Signaling

|                           |                                                      |
|---------------------------|------------------------------------------------------|
| Status display            | 1 x LED (green), 1 x LED (green, red), 1 x LED (red) |
| Operating voltage display | 1 x LED (green)                                      |
| Error indication          | 2 x LED (red)                                        |

## Dimensions

|        |           |
|--------|-----------|
| Width  | 22.61 mm  |
| Height | 112.58 mm |
| Depth  | 113.6 mm  |

## Material specifications

|                  |                             |
|------------------|-----------------------------|
| Color (Housing)  | gray (RAL 7042)             |
| Housing material | Polyamide PA non-reinforced |

## Environmental and real-life conditions

### Ambient conditions

|                                                |                                                                                    |
|------------------------------------------------|------------------------------------------------------------------------------------|
| Degree of protection                           | IP20                                                                               |
| Min. degree of protection of inst. location    | IP54                                                                               |
| Ambient temperature (operation)                | -10 °C ... 55 °C (observe derating)                                                |
| Ambient temperature (storage/transport)        | -20 °C ... 85 °C                                                                   |
| Maximum altitude                               | ≤ 2000 m (Above sea level)                                                         |
| Max. permissible humidity (storage/transport)  | 95 % (non-condensing)                                                              |
| Max. permissible relative humidity (operation) | 95 % (non-condensing)                                                              |
| Shock                                          | 10g for $\Delta t = 16$ ms (continuous shock, 1000 shocks in each space direction) |
| Vibration (operation)                          | 10 Hz ... 150 Hz, 2g                                                               |

## Approvals

CE

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1105128

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|                |              |
|----------------|--------------|
| Identification | CE-compliant |
|----------------|--------------|

## Mounting

|                   |                        |
|-------------------|------------------------|
| Mounting type     | DIN rail mounting      |
| Mounting position | vertical or horizontal |

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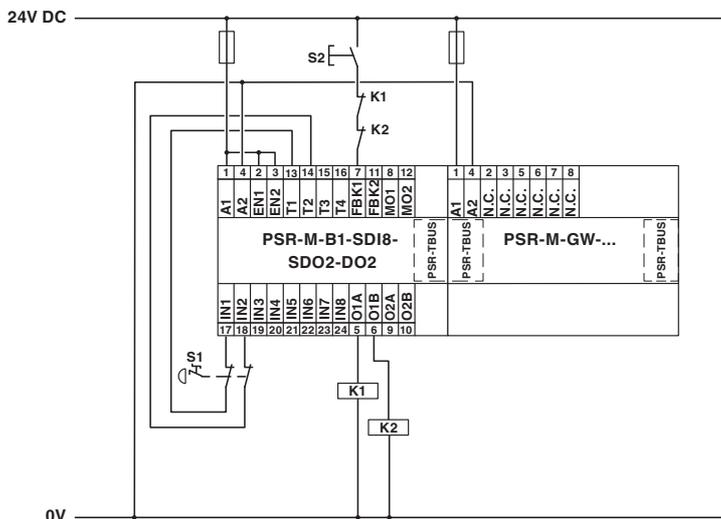


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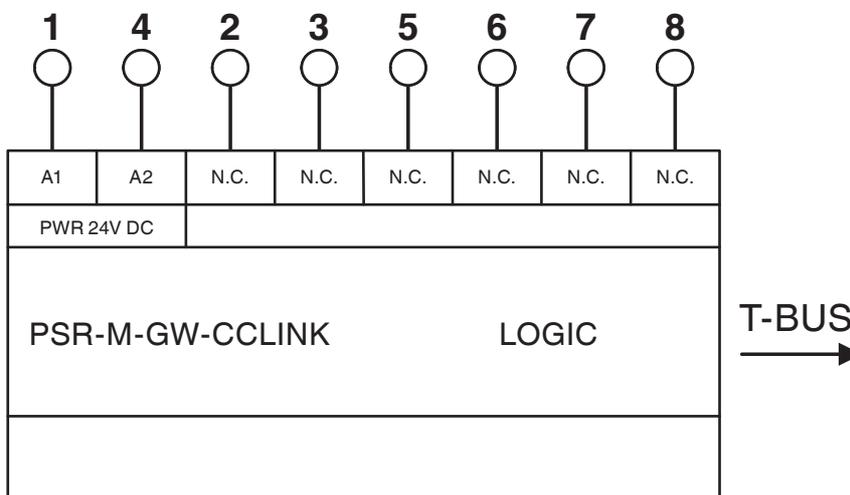
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## Drawings

Application drawing



Block diagram



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## Approvals

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### Functional Safety

Approval ID: Z10029429 0013Rev.02

1105128

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27242608 |
| ECLASS-15.0 | 27242608 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001604 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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