

## Extension module - PSR-SCP- 24UC/URM4/5X1/2X2/B - 2981033

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Single or two-channel contact extension, 5 N/O contacts, 1 N/C contact, 1 confirmation current path, plug-in screw terminal blocks, width: 22.5 mm

### Why buy this product

- ✓ Five enabling, one signaling, and one confirmation current path
- ✓ Up to Cat. 4/PL e according to ISO 13849-1, SILCL 3 according to IEC 62061, SIL 3 according to IEC 61508
- ✓ Single and two-channel control
- ✓



### Key commercial data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 017918 915513 |
| Weight per Piece (excluding packing) | 218.3 g                                                                                                 |
| Custom tariff number                 | 85371099                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Note

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---------------------------------------------------------------------------|

#### Dimensions

|        |          |
|--------|----------|
| Width  | 22.5 mm  |
| Height | 99 mm    |
| Depth  | 114.5 mm |

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -20 °C ... 55 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |

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## Technical data

### Ambient conditions

|                                                |                                                     |
|------------------------------------------------|-----------------------------------------------------|
| Max. permissible relative humidity (operation) | 75 % (on average, 85% infrequently, non-condensing) |
| Max. permissible humidity (storage/transport)  | 75 % (on average, 85% infrequently, non-condensing) |
| Maximum altitude                               | max. 2000 m (Above sea level)                       |

### Input data

|                                           |             |
|-------------------------------------------|-------------|
| Nominal input voltage $U_N$               | 24 V AC/DC  |
| Input voltage range in reference to $U_N$ | 0.8 ... 1.1 |
| Typical input current at $U_N$            | 92 mA       |
| Typical response time                     | 20 ms       |
| Typical release time                      | 20 ms       |
| Status display                            | Green LED   |

### Output data

|                                              |                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------|
| Contact type                                 | 5 enabling current paths                                                     |
|                                              | 1 signaling current path                                                     |
|                                              | 1 confirmation current path                                                  |
| Contact material                             | AgSnO <sub>2</sub> , + 0.2 µm Au                                             |
| Minimum switching voltage                    | 15 V AC/DC                                                                   |
| Maximum switching voltage                    | 250 V AC/DC                                                                  |
| Limiting continuous current                  | 6 A (N/O contact)                                                            |
|                                              | 3 A (N/C contact)                                                            |
| Inrush current, minimum                      | 25 mA                                                                        |
| Maximum inrush current                       | 6 A (N/O contact)                                                            |
|                                              | 3 A (N/C contact)                                                            |
| Sq. Total current                            | $72 \text{ A}^2 (I_{TH}^2 = I_1^2 + I_2^2 + \dots + I_5^2)$                  |
| Interrupting rating (ohmic load) max.        | 144 W (24 V DC, $\tau = 0 \text{ ms}$ , N/C contact 11/12, 71/72: 72 W)      |
|                                              | 288 W (48 V DC, $\tau = 0 \text{ ms}$ , N/C contact 11/12, 71/72: 144 W)     |
|                                              | 110 W (110 V DC, $\tau = 0 \text{ ms}$ )                                     |
|                                              | 88 W (220 V DC, $\tau = 0 \text{ ms}$ )                                      |
|                                              | 1500 VA (250 V AC, $\tau = 0 \text{ ms}$ , N/C contact 11/12, 71/72: 750 VA) |
| Maximum interrupting rating (inductive load) | 42 W (24 V DC, $\tau = 40 \text{ ms}$ )                                      |
|                                              | 42 W (48 V DC, $\tau = 40 \text{ ms}$ )                                      |
|                                              | 42 W (110 V DC, $\tau = 40 \text{ ms}$ )                                     |
|                                              | 42 W (220 V DC, $\tau = 40 \text{ ms}$ )                                     |
| Switching capacity min.                      | 0.4 W                                                                        |
| Output fuse                                  | 6 A fast blow                                                                |
|                                              | C6 (24 V AC/DC) automatic device                                             |

### General

|                         |                                                        |
|-------------------------|--------------------------------------------------------|
| Relay type              | Electromechanically forcibly guided, dust-proof relay. |
| Mechanical service life | Approx. $10^7$ cycles                                  |
| Net weight              | 218.3 g                                                |

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### Technical data

#### General

|                                             |                                                                                                                                          |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting type                               | DIN rail mounting                                                                                                                        |
| Degree of protection                        | IP54                                                                                                                                     |
|                                             | IP20                                                                                                                                     |
| Min. degree of protection of inst. location | IP54                                                                                                                                     |
| Mounting position                           | any                                                                                                                                      |
| Parameters as per EN ISO 13849              | 4 (In conjunction with suitable evaluating device)                                                                                       |
| Stop category                               | 0                                                                                                                                        |
| Parameters for IEC 61508                    | 3                                                                                                                                        |
| Designation                                 | Air clearances and creepage distances between the power circuits                                                                         |
| Standards/regulations                       | DIN EN 50178/VDE 0160                                                                                                                    |
| Rated surge voltage/insulation              | 4 kV / basic isolation (safe isolation, increased isolation and 6 kV between A1/A2, 11/12, 23/24, 71/72 and 33/34, 43/44, 53/54, 63/64.) |
| Rated insulation voltage                    | 250 V                                                                                                                                    |
| Pollution degree                            | 2                                                                                                                                        |
| Surge voltage category                      | III                                                                                                                                      |

#### Connection data

|                                       |                     |
|---------------------------------------|---------------------|
| Connection method                     | Screw connection    |
| Conductor cross section solid min.    | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.    | 2.5 mm <sup>2</sup> |
| Conductor cross section flexible min. | 0.2 mm <sup>2</sup> |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG min.      | 24                  |
| Conductor cross section AWG max.      | 12                  |
| Stripping length                      | 7 mm                |
| Screw thread                          | M3                  |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371901 |
| eCl@ss 5.1 | 27371901 |
| eCl@ss 6.0 | 27371819 |
| eCl@ss 7.0 | 27371819 |
| eCl@ss 8.0 | 27371819 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001449 |
| ETIM 3.0 | EC001449 |
| ETIM 4.0 | EC001449 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC001449 |
|----------|----------|

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211901 |
| UNSPSC 7.0901 | 39121501 |
| UNSPSC 11     | 39121501 |
| UNSPSC 12.01  | 39121501 |
| UNSPSC 13.2   | 39121501 |

### Approvals

#### Approvals

#### Approvals

UL Listed / cUL Listed / Functional Safety / Functional Safety / EAC / EAC / cULus Listed

#### Ex Approvals

#### Approvals submitted

#### Approval details

|                                                                                               |
|-----------------------------------------------------------------------------------------------|
| UL Listed  |
|-----------------------------------------------------------------------------------------------|

|                                                                                                |
|------------------------------------------------------------------------------------------------|
| cUL Listed  |
|------------------------------------------------------------------------------------------------|

|                   |
|-------------------|
| Functional Safety |
|-------------------|

|                   |
|-------------------|
| Functional Safety |
|-------------------|

|     |
|-----|
| EAC |
|-----|

|     |
|-----|
| EAC |
|-----|

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### Approvals

cULus Listed 

### Drawings

Circuit diagram

