



## PSC1-C-10-SDM1-FB10-ECFS

- Memory card
- conversion of the field bus protocols by software
- integrated SD-Bus-Gateway
- Safe drive monitoring according to EN 61800-5-2 (SDM - Safe Drive Monitoring) for 1 axis
- Modular expansion with up to 64 inputs / outputs
- 4 safe 2 A pp-switching semiconductor outputs, switchable to 2 safe p- / n-switching semiconductor outputs
- 14 safe inputs on the base module
- 2 Signalling outputs
- 2 safety relay contacts

## Data

### Ordering data

|                               |                          |
|-------------------------------|--------------------------|
| Product type description      | PSC1-C-10-SDM1-FB10-ECFS |
| Article number (order number) | 103049464                |
| EAN (European Article Number) | 4030661624105            |
| eCl@ss number, version 12.0   | 27-24-22-07              |
| eCl@ss number, version 11.0   | 27-24-22-07              |
| eCl@ss number, version 9.0    | 27-24-22-07              |
| ETIM number, version 7.0      | EC000236                 |
| ETIM number, version 6.0      | EC000236                 |

### Approvals - Standards

Certificates

TÜV  
cULus

### General data - Features

|                                             |     |
|---------------------------------------------|-----|
| SD Card Slot                                | Yes |
| Master-Master-Kommunikation                 | No  |
| Integrated SD gateway                       | Yes |
| Number of pulse outputs (test pulse output) | 2   |
| Number of relay outputs (1-channel)         | 2   |
| Number of digital fail-safe inputs          | 14  |
| Number of fail-safe digital outputs         | 4   |
| Number of signalling outputs                | 2   |
| Anzahl der Erweiterungsbaugruppen, maximal  | 2   |

### Safety classification

|                                                            |                          |
|------------------------------------------------------------|--------------------------|
| Performance Level, up to                                   | e                        |
| Category                                                   | 4                        |
| PFH value                                                  | $1.26 \times 10^{-8} /h$ |
| Safety Integrity Level (SIL), suitable for applications in | 3                        |
| Mission time                                               | 20 Year(s)               |

### Mechanical data

|          |                                   |
|----------|-----------------------------------|
| Mounting | can be clipped into standard rail |
|----------|-----------------------------------|

### Mechanical data - Connection technique

|                             |                           |
|-----------------------------|---------------------------|
| Cable section, minimum      | 0.2 mm <sup>2</sup>       |
| Cable section, maximum      | 2.5 mm <sup>2</sup>       |
| Wire cross-section, minimum | 24 AWG                    |
| Wire cross-section, maximum | 12 AWG                    |
| Wire cross-section          | 24 ... 12 AWG             |
| Terminal (mechanical)       | Removable screw terminals |

### Mechanical data - Dimensions

|       |         |
|-------|---------|
| Width | 67.5 mm |
|-------|---------|

|        |        |
|--------|--------|
| Height | 100 mm |
|--------|--------|

|       |        |
|-------|--------|
| Depth | 115 mm |
|-------|--------|

### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP20 |
|----------------------|------|

|                     |               |
|---------------------|---------------|
| Ambient temperature | +0 ... +50 °C |
|---------------------|---------------|

|                                   |                |
|-----------------------------------|----------------|
| Storage and transport temperature | -25 ... +70 °C |
|-----------------------------------|----------------|

|                            |     |
|----------------------------|-----|
| Relative humidity, minimum | 5 % |
|----------------------------|-----|

|                            |      |
|----------------------------|------|
| Relative humidity, maximum | 85 % |
|----------------------------|------|

|                          |                |
|--------------------------|----------------|
| Note (Relative humidity) | non-condensing |
|--------------------------|----------------|

|                                                            |         |
|------------------------------------------------------------|---------|
| Permissible installation altitude above sea level, maximum | 2,000 m |
|------------------------------------------------------------|---------|

### Ambient conditions - Insulation values

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
|----------------------|-----|

|                     |   |
|---------------------|---|
| Degree of pollution | 2 |
|---------------------|---|

### Electrical data

|                   |                      |
|-------------------|----------------------|
| Operating voltage | 24 VDC -15 % / +20 % |
|-------------------|----------------------|

|                         |        |
|-------------------------|--------|
| Rated operating voltage | 24 VDC |
|-------------------------|--------|

### Electrical data - Universal communication interface

|                                      |      |
|--------------------------------------|------|
| Designation, Communication interface | RJ45 |
|--------------------------------------|------|

### Electrical data - Communication protocols

EtherCAT  
EtherNet IP  
PROFINET IO  
EtherCAT / FSoE

### Electrical data - Safety digital outputs

|                                          |                                         |
|------------------------------------------|-----------------------------------------|
| Rated operating current (safety outputs) | 2,000 mA                                |
| Design of control elements               | short-circuit proof, p-type (Q2 und Q3) |

### Electrical data - Safe relay outputs

|                                     |         |
|-------------------------------------|---------|
| Voltage, Utilisation category AC-15 | 230 VAC |
| Current, Utilisation category AC-15 | 2 A     |
| Voltage, Utilisation category DC-13 | 24 VDC  |
| Current, Utilisation category DC-13 | 2 A     |

### Electrical data - Electromagnetic compatibility (EMC)

|                               |                                                        |
|-------------------------------|--------------------------------------------------------|
| Electromagnetic compatibility | DIN EN 62061<br>DIN EN 61800-3                         |
| Interfering radiation         | DIN EN 61000-6-4                                       |
| EMC rating                    | DIN EN 61000-6-7<br>DIN EN 61326-3<br>DIN EN 61000-6-2 |

### Scope of delivery

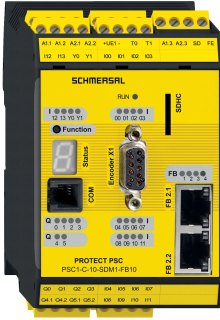
|                   |                                                |
|-------------------|------------------------------------------------|
| Scope of delivery | Backplane bus connector<br>Connector terminals |
|-------------------|------------------------------------------------|

### Electrical data - Spindle monitoring

|                                 |                                          |
|---------------------------------|------------------------------------------|
| Number of axis monitoring, max. | 1                                        |
| Drive monitoring, encoder typ   | SSI<br>TTL<br>SINCOS<br>Proximity switch |

## Pictures

### Product picture (catalogue individual photo)



ID: kpsc1f65

| 1.0 MB | .jpg | 352.778 x 498.828 mm - 1000 x 1414 px - 72 dpi

| 92.5 kB | .png | 73.731 x 104.422 mm - 209 x 296 px - 72 dpi

| 103.6 kB | .jpg | 87.489 x 123.472 mm - 248 x 350 px - 72 dpi

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

Generated on: 21/08/2024, 5:04 am