

PSR-SCP- 24DC/ESP4/2X1/1X2

Order No.: 2981020



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2981020>

Safety relay for process engineering, emergency stop and protective door monitoring. One-channel, two enabling current paths, pluggable connecting terminal blocks with screw connection



Commercial data

| | |
|--------------------------|-------------------|
| EAN | 4017918911065 |
| Pack | 1 Pcs. |
| Customs tariff | 85364900 |
| Weight/Piece | 0.2363 KG |
| Catalog page information | Page 23 (IF-2007) |

Product notes

WEEE/RoHS-compliant since:
02/19/2007



<http://www.download.phoenixcontact.com>
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Technical data

Input data

| | |
|---|-----------------|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range in reference to U_N | 0.85 ... 1.1 |
| Typical input current at U_N | 60 mA DC |
| Voltage at input/start and feedback circuit | Approx. 24 V DC |

| | |
|-----------------------|-------|
| Typical response time | 60 ms |
| Typical release time | 20 ms |
| Recovery time | 1 s |

Output data

| | |
|--|--|
| Contact type | 2 enabling current paths, 1 signaling current path |
| Contact material | AgSnO ₂ , + 0.2 µm Au |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 15 V AC/DC |
| Limiting continuous current | 6 A |
| Maximum inrush current | 6 A |
| Inrush current, minimum | 25 mA |
| Interrupting rating (ohmic load) max. | 144 W (24 V DC, τ = 0 ms) |
| | 288 W (48 V DC, τ = 0 ms) |
| | 110 W (110 V DC, τ = 0 ms) |
| | 88 W (220 V DC, τ = 0 ms) |
| | 1500 VA (250 V AC, τ = 0 ms) |
| Maximum interrupting rating (inductive load) | 42 W (24 V DC, τ = 40 ms) |
| | 42 W (48 V DC, τ = 40 ms) |
| | 42 W (110 V DC, τ = 40 ms) |
| | 42 W (220 V DC, τ = 40 ms) |
| Switching capacity min. | 0.4 W |
| Output fuse | 6 A fast blow |
| | 4 A circuit-breaker C |

General data

| | |
|---|--------------------------------|
| Length | 99 mm |
| Width | 22.5 mm |
| Height | 114.5 mm |
| Ambient temperature (operation) | -20 °C ... 55 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |
| Service life mechanical | Approx. 10 ⁷ cycles |
| Mounting position | Any |
| Category in acc. with EN 954-1 | 2 |
| | 4 |
| Stop category | 0 |

| | |
|----------------------------------|---|
| Name | Air and creepage distances between the power circuits |
| Standards/regulations | DIN EN 50178/VDE 0160 |
| Rated surge voltage / insulation | 6 kV / Safe isolation, increased insulation |
| Rated insulation voltage | 250 V |
| Pollution degree | 2 |
| Surge voltage category | III |

Connection data

| | |
|--|---------------------|
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 12 |
| Stripping length | 7 mm |
| Screw thread | M3 |
| Type of connection | Screw connection |

Certificates / Approvals

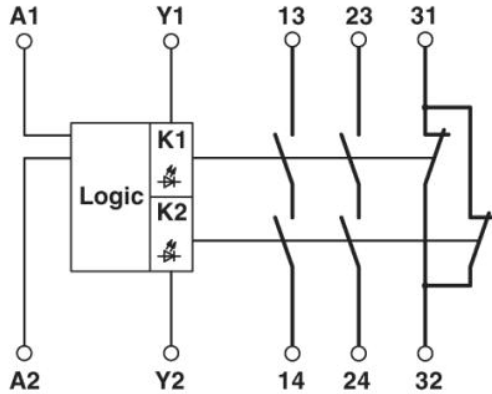


Certification

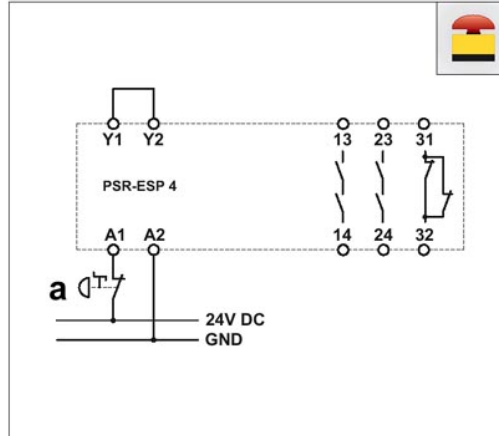
CUL Listed, GL, GOST, TUEV-RH, UL Listed

Drawings

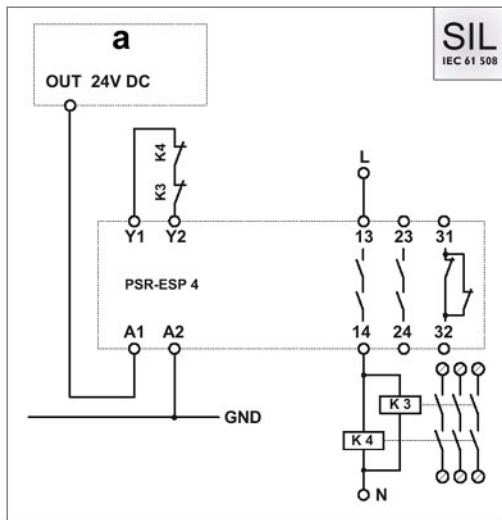
Circuit diagram



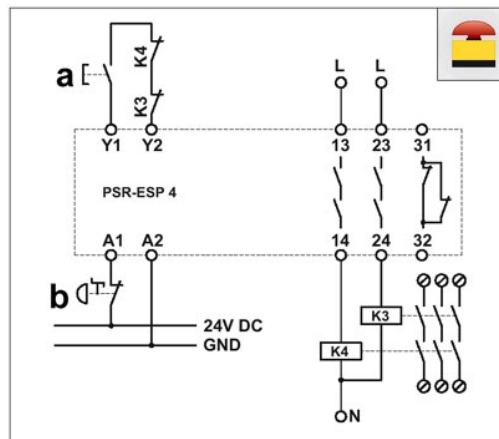
1 = logics



One-channel emergency stop circuit with automatic activation, suitable up to safety category 2.



One-channel evaluation of a safety controller with automatic activation, suitable up to SIL 3.



One-channel emergency stop circuit with manual activation and monitored contact expansion, suitable up to safety category 2.