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Safety relay for emergency stop and safety door monitoring up to SIL 3 or Cat. 4, PL e according to EN ISO 13849, single or two-channel operation, 3 enabling current paths, nominal input voltage of 24 V AC/DC, plug-in spring-cage terminal block

The figure shows a version with a screw connection

Product Features

- ☑ 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
Weight per Piece (excluding packing)	226.8 g
Custom tariff number	85364900
Country of origin	Germany

Technical data

Note

Utilization restriction EN are	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	22.5 mm
Height	112 mm
Depth	114.5 mm

Ambient conditions

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



Technical data

Ambient conditions

Maximum altitude	≤ 2000 m (Above sea level)

Input data

Nominal input voltage U _N	24 V AC/DC
Input voltage range in reference to U _N	0.85 1.1
Typical input current at U _N	140 mA AC
	65 mA DC
Voltage at input/start and feedback circuit	approx. 24 V DC
Typical response time	20 ms (Monitored/manual start)
Typical release time	45 ms (single-channel)
	10 ms (two-channel)
Concurrence input 1/2	ω
Recovery time	1 s
Status display	Green LED
Max. permissible overall conductor resistance	approx. 50 Ω (Input and start circuits at U_N)

Output data

3 enabling current paths
1 signaling current path
AgSnO ₂ , + 0.2 μm Au
15 V AC/DC
250 V AC/DC
6 A (N/O contact)
25 mA
6 A
$72 A^{2} (I_{TH}^{2} = I_{1}^{2} + I_{2}^{2} + I_{3}^{2})$
144 W (24 V DC, τ = 0 ms)
288 W (48 V DC, τ = 0 ms)
77 W (110 V DC, τ = 0 ms)
88 W (220 V DC, τ = 0 ms)
1500 VA (250 V AC, τ = 0 ms)
48 W (24 V DC, τ = 40 ms)
40 W (48 V DC, τ = 40 ms)
35 W (110 V DC, τ = 40 ms)
33 W (220 V DC, τ = 40 ms)
0.4 W
10 A gL/gG NEOZED (N/O contact)
6 A gL/gG NEOZED (N/C contact)



Technical data

General

Relay type	Electromechanical relay with forcibly guided contacts in accordance with EN 50205
Mechanical service life	Approx. 10 ⁷ cycles
Net weight	192.98 g
Mounting type	DIN rail mounting
Degree of protection	IP54
	IP20
Min. degree of protection of inst. location	IP54
Mounting position	any
Control	one and two channel
Parameters as per EN ISO 13849	4
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, reinforced insulation and 6 kV between input circuit and enabling current paths.)
Rated insulation voltage	250 V
Pollution degree	2
Overvoltage category	III

Connection data

Connection method	Spring-cage connection
pluggable	Yes
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	1.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	1.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16
Stripping length	8 mm

Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371901



Classifications

eCl@ss

eCl@ss 5.1	27371901
eCl@ss 6.0	27371819
eCl@ss 7.0	27371819
eCl@ss 8.0	27371819

ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC001449
ETIM 4.0	EC001449
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

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

Ex Approvals

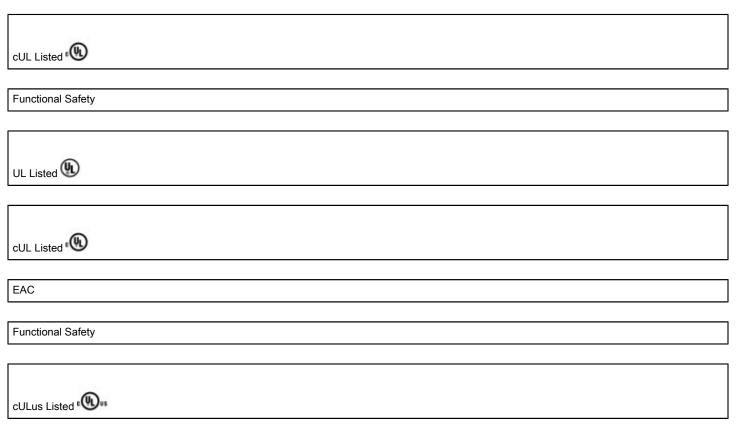
Approvals submitted

Approval details

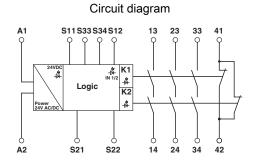
UL Listed



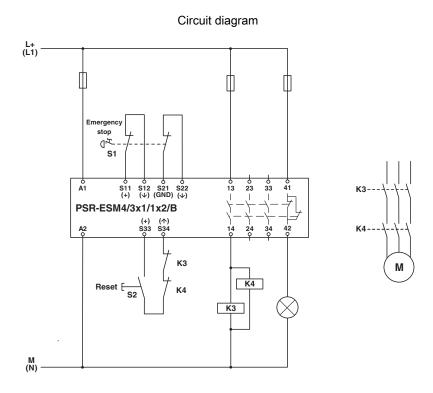
Approvals



Drawings

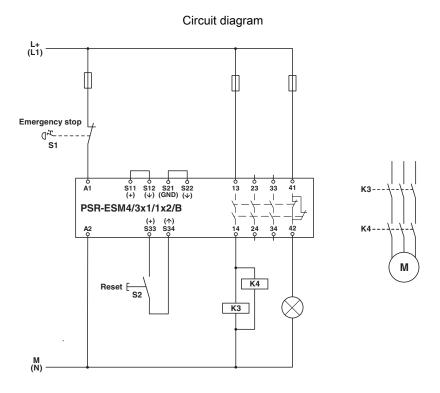






Two-channel emergency stop monitoring





Single-channel emergency stop monitoring

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