

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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, 1 or 2-channel operation, 2 enabling current paths, nominal input voltage: 24 V AC/DC, plug-in spring-cage terminal block

The figure shows a version with a screw connection

#### **Product Features**

- Single and two-channel control
- 2 enabling current paths, 1 signaling current path



## **Key Commercial Data**

Packing unit	1 pc
Weight per Piece (excluding packing)	220.0 g
Custom tariff number	85364900
Country of origin	Germany

#### Technical data

#### Note

Utilization restriction EM 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	

24 V AC/DC
0.85 1.1
140 mA AC
65 mA DC
approx. 24 V DC
20 ms (Monitored/manual start)
45 ms (single-channel)
10 ms (two-channel)
ω
1 s
Green LED
approx. 50 $\Omega$ (Input and start circuits at $U_N$ )

## Output data

Contact type	2 enabling current paths
	1 signaling 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)
Inrush current, minimum	25 mA
Maximum inrush current	6 A
Sq. Total current	$72 \text{ A}^2 \left( I_{TH}^2 = I_1^2 + I_2^2 \right)$
Interrupting rating (ohmic load) max.	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)
Maximum interrupting rating (inductive load)	48 W (24 V DC, τ = 40 ms)
	40 W (48 V DC, τ = 40 ms)
	35 W (110 V DC, τ = 40 ms)
	35 W (220 V DC, τ = 40 ms)
Switching capacity min.	0.4 W
Output fuse	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 <sup>7</sup> cycles
Net weight	202.1 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

#### Connection data

Connection method	Spring-cage connection
pluggable	Yes
Conductor cross section solid min.	0.2 mm²
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

## Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178/VDE 0160
Rated insulation voltage	250 V
Rated surge voltage/insulation	6 kV / Safe isolation, increased insulation
Pollution degree	2
Overvoltage category	III
Safety Integrity Level Claim Limit (SIL CL)	3

## Classifications

### eCl@ss

eCl@ss 4.0	27371102	



## Classifications

### eCl@ss

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	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

Approvals

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

Ex Approvals

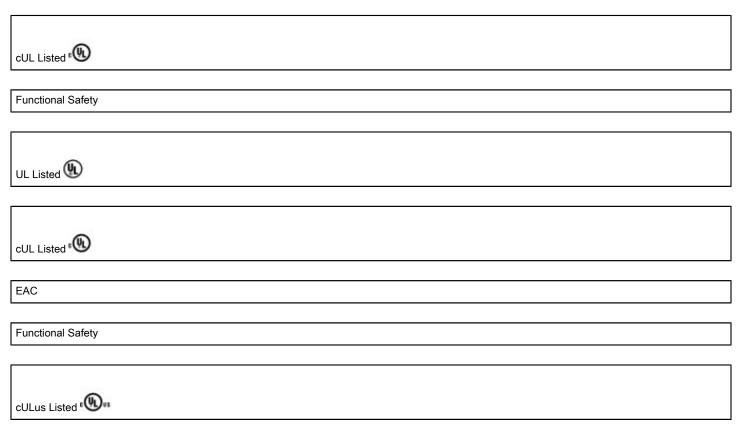
Approvals submitted

Approval details

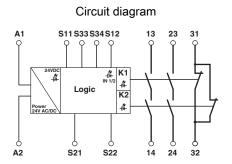




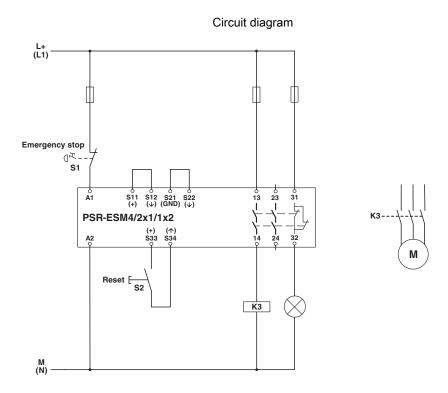
## Approvals



## Drawings

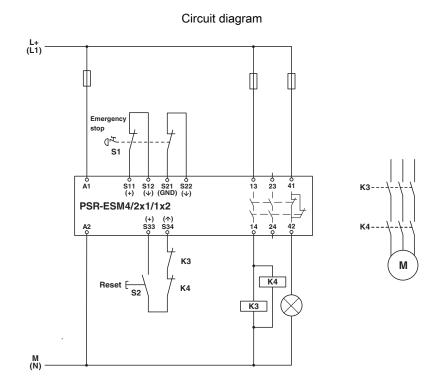






Single-channel emergency stop monitoring





Two-channel emergency stop monitoring

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