

1449148

https://www.phoenixcontact.com/in/products/1449148

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Set consisting of 10 safety relays for emergency stop and safety door monitoring up to SIL 3 or Cat. 4, PL e in accordance with EN ISO 13849, 2-channel operation, 2 enabling current paths, nominal input voltage: 24 V DC, plug-in screw terminal block

Your advantages

- Up to Cat. 4/PL e in accordance with EN ISO 13849-1, SIL 3 in accordance with EN IEC 62061, SIL 3 in accordance with IEC 61508
- · Manually monitored and automatic activation in a single device
- · Reinforced insulation
- · 2 channel control
- 2 enabling current paths, 1 signaling current path

Commercial data

Item number	1449148
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	DNA114
GTIN	4063151835002
Weight per piece (including packing)	169.64 g
Weight per piece (excluding packing)	1,695 g
Country of origin	DE



1449148

https://www.phoenixcontact.com/in/products/1449148

Set consists of

PSR-SCP- 24UC/ESAM4/2X1/1X2 - Safety relays

2900525

https://www.phoenixcontact.com/in/products/2900525



Safety relay for emergency stop and safety door monitoring up to SIL 3 or Cat. 4, PL e in accordance with EN ISO 13849, 2-channel operation, 2 enabling current paths, nominal input voltage: 24 V DC, plug-in screw terminal block



1449148

https://www.phoenixcontact.com/in/products/1449148

Technical data

Notes

Note on application	Only for industrial use
duct properties	
Product type	Safety relays
Product family	PSRclassic
Application	Emergency stop
	Safety door
Control	2-channel
Mechanical service life	approx. 10 ⁷ cycles
Relay type	Electromechanical relay with force-guided contacts in accordance with IEC/EN 61810-3
mes	
Typical response time	typ. 150 ms (For U _s autostart)
	typ. 100 ms (For U _s manual, monitored start)
Typ. starting time with U _s	typ. 250 ms (with Us / when controlled via A1)
Typical release time	typ. 20 ms (At Us on demand via sensor circuit)
	typ. 45 ms (At Us/on demand via A1)
Recovery time	< 1 s (Boot time)
	1 s (following demand of the safety function)
ctrical properties	
Maximum power dissipation for nominal condition	16.44 W (U _S = 26.4 V, I _L ² = 72 A ² , P _{Total max} = 2.04 W + 14.4 W
Nominal operating mode	100% operating factor
r clearances and creepage distances between the power circu	uits
Rated insulation voltage	250 V
Rated surge voltage/insulation	
upply	
Rated control circuit supply voltage U _S	24 V DC -15 % / +10 %
Rated control supply current I _S	typ. 70 mA (at U _S)
Power consumption at U _S	typ. 1.68 W
Inrush current	< 3.5 A (typ. with U _S , Δt = 3 ms)
mach carrent	
Filter time	5 ms (in the event of voltage dips at U _s)

Input data

Digital: Logic (S12, S22)

Description of the inner	andah , salahad
Description of the input	safety-related



1449148

https://www.phoenixcontact.com/in/products/1449148

Number of inputs	2
Input voltage range "0" signal	0 V DC 5 V DC (S12)
Input voltage range "1" signal	20.4 V 26.4 V (S12)
Input current range "0" signal	0 mA 2 mA
Inrush current	< 100 mA (Δt = 500 ms, with U _s /I _x at S12)
	> -100 mA (Δt = 300 ms, with U _s /I _x at S22)
Filter time	No test pulses permitted
Concurrence	∞
Max. permissible overall conductor resistance	50 Ω
Protective circuit	Suppressor diode
Current consumption	38 mA (typ. with U _S at S12)
	-38 mA (typ. with U _S at S22)

Digital: Start circuit (S34, S35)

Description of the input	non-safety-related
Number of inputs	2
Input voltage range "1" signal	20.4 V 26.4 V
Inrush current	< 6 mA (typ. with U _S at S34/35)
Filter time	No test pulses permitted
Max. permissible overall conductor resistance	50 Ω
Protective circuit	Suppressor diode
Current consumption	0 mA (typ. with U _S at S34)
	1 mA (typ. with U _S at S35)

Output data

Relay: Enabling current paths (13/14, 23/24)

Output description	2 N/O contacts in series, safety-related, floating
Number of outputs	2
Contact switching type	2 enabling current paths
Contact material	$AgSnO_2$
Switching voltage	min. 10 V AC/DC
	max. 250 V AC/DC
Switching capacity	min. 100 mW
Inrush current	min. 10 mA
	max. 6 A
Switching capacity in accordance with IEC 60947-5-1	5 A (AC15)
	6 A (DC13)
Limiting continuous current	6 A
Sq. Total current	72 A ² (observe derating)
Switching frequency	max. 0.5 Hz
Interrupting rating (ohmic load) max.	Observe derating and load limit curve
Output fuse	10 A gL/gG (High demand)
	4 A gL/gG (Low demand)



1449148

https://www.phoenixcontact.com/in/products/1449148

Output description	2 N/C contacts parallel, non-safety-related, floating
Number of outputs	1
Contact switching type	1 signaling current path
Contact material	AgSnO ₂
Switching voltage	min. 10 V AC/DC
	max. 250 V AC/DC
Switching capacity	min. 100 mW
Inrush current	min. 10 mA
	max. 6 A
Switching capacity in accordance with IEC 60947-5-1	1.5 A (AC15)
	2 A (DC13)
Limiting continuous current	6 A (Signaling current path)
Sq. Total current	$36 A^2$
Switching frequency	max. 0.5 Hz
Interrupting rating (ohmic load) max.	Observe derating and load limit curve
Output fuse	6 A gL/gG

Connection data

Connection technology

pluggable	yes
Conductor connection	
Connection method	Screw connection
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross-section AWG	24 12
Stripping length	7 mm
Screw thread	M3

Signaling

Status display	3 x LED (green)
Operating voltage display	1 x LED (green)

Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Material specifications

Color (Housing)	yellow (RAL 1018)
Housing material	PA

Characteristics



1449148

https://www.phoenixcontact.com/in/products/1449148

Safety data	
Stop category	0
Safety data: EN ISO 13849	
Category	4
Performance level (PL)	e (5 A DC13; 5 A AC15; 8760 switching cycles/year)
Safety data: IEC 61508 - High demand	
Safety Integrity Level (SIL)	3
Safety data: IEC 61508 - Low demand	
Safety Integrity Level (SIL)	3
Safety data: EN IEC 62061	

Environmental and real-life conditions

Safety Integrity Level (SIL)

Ambient conditions

Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Ambient temperature (operation)	-20 °C 55 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C 70 °C
Maximum altitude	≤ 2000 m (Above sea level)
Max. permissible humidity (storage/transport)	75 % (on average, 85% infrequently, non-condensing)
Max. permissible relative humidity (operation)	75 % (on average, 85% infrequently, non-condensing)
Shock	15g
Vibration (operation)	10 Hz 150 Hz, 2g

Approvals

CE

Identification CE-compliant

Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	DIN EN 60947-1
-----------------------	----------------

Mounting

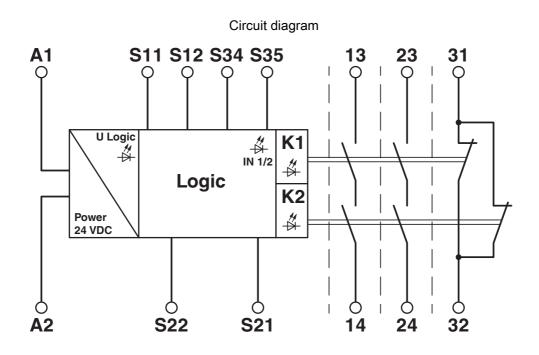
Mounting type	DIN rail mounting
Assembly note	See derating curve
Mounting position	vertical or horizontal



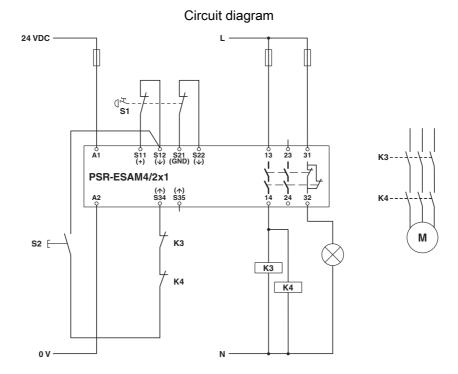
1449148

https://www.phoenixcontact.com/in/products/1449148

Drawings



Block diagram



2-channel emergency stop monitoring



1449148

https://www.phoenixcontact.com/in/products/1449148

Approvals

🎨 To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1449148



Functional Safety

Approval ID: 01/205/5117.04/23



Functional Safety

Approval ID: 968/EZ 496.06/23



1449148

https://www.phoenixcontact.com/in/products/1449148

Classifications

ECLASS

ECLASS-11.0	27371819
ECLASS-13.0	27371819
ECLASS-12.0	27371819

ETIM

ETIM 9.0	EC001449



1449148

https://www.phoenixcontact.com/in/products/1449148

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	e0467eb0-371c-4b13-8aac-7e2dd9181646



1449148

https://www.phoenixcontact.com/in/products/1449148

Accessories

CP-MSTB - Coding profile

1734634

https://www.phoenixcontact.com/in/products/1734634

Coding profile, is inserted into the slot on the plug or inverted header, red insulating material



CR-MSTB - Coding section

1734401

https://www.phoenixcontact.com/in/products/1734401

Coding section, inserted into the recess in the header or the inverted plug, red insulating material $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right$





1449148

https://www.phoenixcontact.com/in/products/1449148

CRIMPFOX 6 - Crimping pliers

1212034

https://www.phoenixcontact.com/in/products/1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, $0.25~\text{mm}^2$... $6.0~\text{mm}^2$, lateral entry, trapezoidal crimp

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT (I) Pvt. Ltd. A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420 info@phoenixcontact.co.in