

Monitoring relay
SKS - Contact protection with 1 Changeover
 11.25mm housing



Application

Protection of sensitive contacts and contact armature; for example limit value contacts of manometers, pressure monitors and level monitors in conjunction with float switches.

Description

The **SKS contact protection relay** can operate on either 230V AC using terminals A1 and A2 or 24V DC using terminals A3 and A2. The green LED indicates the connection of the power supply. Continuous presence of the power supply is required for operation.

Function

The activation of the timing cycle is accomplished using a potential-free control contact connected to the terminals B1 and B2. If the control contact is closed, the output relay energizes after the selected delayed pull-in time (T_{AN}). This status is indicated by the red LED. If during the lapse time the control contact is opened and then closed, the timing cycle begins again. After the control contact opens, the output relay releases upon completion of the selected drop-off delay time (T_{AB}). The relay remains energized if the control contact closes during the timing cycle. Pull-in and drop-off times are the same and can be adjusted using the DIP switches and the potentiometer located on the relay's front panel.

Options

Other timing ranges and supply voltages available upon request.

Part number

011121

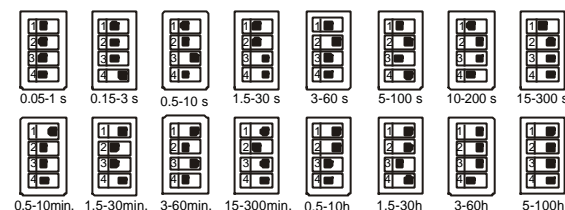
SKS Contact protection relay
 16 Timing ranges / 1 Changeover

Timing ranges

16 timing ranges adjustable with DIP switches

0.05 – 1 s	0.5 – 10 min
0.15 – 3 s	1.5 – 30 min
0.5 – 10 s	3 – 60 min
1.5 – 30 s	15 – 300 min
3 – 60 s	0.5 – 10 h
5 – 100 s	1.5 – 30 h
10 – 200 s	3 – 60 h
15 – 300 s	5 – 100 h

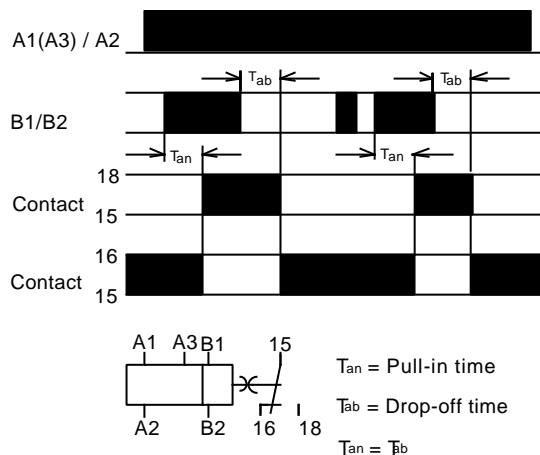
DIP switch adjustments



Approvals



Function diagram



Mounting

Snap-on mounting using a standard DIN rail EN 50022. The unit is designed to allow side-by-side mounting, with an ambient temperature of < 60°C.

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Technical data

Supply

Supply voltage:	A1 / A2 A3 / A2	230V AC -15 / +10% 24V AC/DC -15 / +10%
Frequency range:		50 ... 60Hz
Power consumption:		approx. 1.5W / DC approx. 6VA / AC
Operating mode:		continuous
Supply voltage influence:		< 0.01% over voltage range
Temperature influence:		< 0.01%/°C
Recovery time:		< 100ms
Repetitive accuracy:		± 0.2%

Operation indicators

Supply voltage:	LED, green
Relay in working position:	LED, red

Contact

Number of changeovers:	1
Contact material:	AgSnO ₂
Maximum switching voltage:	250V AC
Maximum switching current:	4A
Drop-off time of switching element:	approx. 20ms
Mechanical life:	30 Mio.
Electrical life (with rated load):	0.8 Mio.

General data

Ambient temperature:	- 25 ... + 60°C
Climate resistance:	VDE 0435T.2021
Mounting position:	any
Vibration resistance:	VDE 0435T.2021
Test voltage:	2.5kV
Isolation group:	VDE 0110 Group C 250
Protection class:	Terminals IP 20 Housing IP 40

Connection terminals:

Connection cross section:

Crosshead screws;
 M3.5 self opening
 Multi-strand wire with
 wire sleeves 2 x 2.5mm²
 single wire 2 x 2.5mm²
 VDE 0106T.100 and
 VBG4

Finger touch protection:

Mounting:

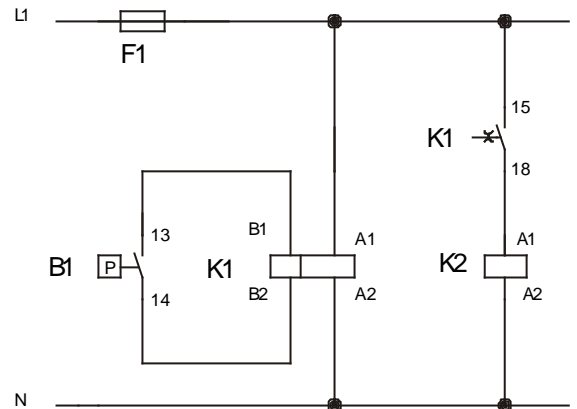
Dimensions l x w x h:

Symmetrical DIN rail
 EN 50022
 78mm x 11.25mm x
 110mm

Weight:

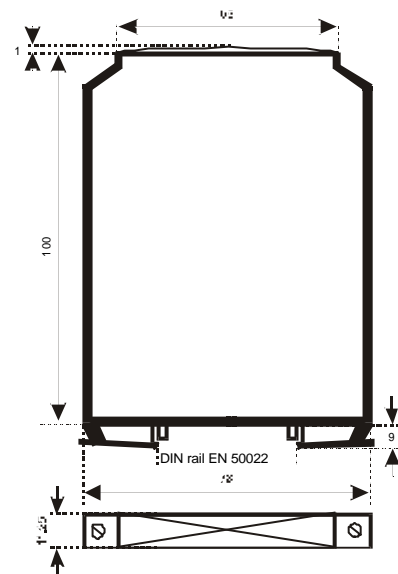
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Example



When the control contact B1 opens or closes, it is possible to achieve a clear condition of the protection relay K2.

Dimensions



Connections

The terminal assignment for the connections is located on the front panel of the relay. **Reading the from panel from top to bottom**, the connections are in the following order:

LED side:	B1 – A1 – A3 - 15
Potentiometer side:	B2 – A2 – 16 – 18

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