## SNA 4043K/KM/KE, SNA 4044K/KM Monitoring of emergency stop, safety gates and light barriers



## Function

Emergency stop and safety gate monitor The safety switching devices of our SNA product line are used to monitor safety sensors (emergency stop buttons, safety gate switches, etc.), feature a large number of safety switching contacts (3 NO contacts/1 NC contact or 4 NO contacts) with a total width of only 22.5 mm at a constant current of up to 8 A . They can be implemented in the extended temperature range up to $65^{\circ} \mathrm{C}$.

## Applications

- Protection of people and machinery
- Monitoring of emergency stop applications
- Monitoring of safety gates
- Monitoring of light barriers
- Up to PL e/Category 4 (EN ISO 13849-1)
- Up to SILcl 3 (EN 62061)


## Features

- Stop Category 0 according to EN 60204-1
- Single-channel or two-channel control
- Automatic start
- Manual reset without monitoring
- Cross monitoring
- 3 to 4 enabling current paths
- Automatic start - Reset input S34 is connected to safety input S11. To monitor external contact blocks (EDM), their NC contacts must be connected in series between S34 and S11.
- Manual start without monitoring - Reset input S34 is connected to safety input S11 via a RESET button. To monitor external contact blocks (EDM), their NC contacts must be connected to the RESET button in series.
- Monitoring of light curtains - The KM device types are especially suitable for the monitoring of very fast tactile switching operations, for example in safety light curtain applications. Very short switch-off procedures of a few milliseconds are detected reliably and lead to the switching off of the internal relays.


## Circuit diagram



Overview of devices | part numbers

| Type | Rated voltage | Terminals | Part no. | Std. pack |
| :---: | :---: | :---: | :---: | :---: |
| SNA 4043K-A | 24 V AC/DC | Screw terminals, pluggable | R1.188.1810.0 | 1 |
| SNA 4043K-A | $42-48 \mathrm{~V}$ AC | Screw terminals, pluggable | R1.188.1820.0 | 1 |
| SNA 4043K-A | 115-120 V AC | Screw terminals, pluggable | R1.188.1830.0 | 1 |
| SNA 4043K-A | 230 V AC | Screw terminals, pluggable | R1.188.1840.0 | 1 |
| SNA 4043K-C | 24 V AC/DC | Push-in terminals, pluggable | R1.188.1940.0 | 1 |
| SNA 4043KM-A | 24 V AC/DC | Screw terminals, pluggable | R1.188.3250.0 | 1 |
| SNA 4043KM-C | 24 V AC/DC | Push-in terminals, pluggable | R1.188.3400.0 | 1 |
| SNA 4043KE-A | AC/DC 24 V | Screw terminals, pluggable | R1.188.3810.0 | 1 |
| SNA 4043KE-C | AC/DC 24 V | Push-in terminals, pluggable | R1.188.3820.0 | 1 |
| SNA 4044K-A | 24 V AC/DC | Screw terminals, pluggable | R1.188.1860.0 | 1 |
| SNA 4044K-A | $42-48 \mathrm{~V}$ AC | Screw terminals, pluggable | R1.188.1870.0 | 1 |
| SNA 4044K-A | 115-120 V AC | Screw terminals, pluggable | R1.188.1880.0 | 1 |
| SNA 4044K-A | 230 V AC | Screw terminals, pluggable | R1.188.1890.0 | 1 |
| SNA 4044K-C | 24 V AC/DC | Push-in terminals, pluggable | R1.188.1960.0 | 1 |
| SNA 4044KM-A | 24 V AC/DC | Screw terminals, pluggable | R1.188.1480.0 | 1 |
| SNA 4044KM-C | 24 V AC/DC | Push-in terminals, pluggable | R1.188.3410.0 | 1 |

## Technical data



