

safety



 **wieland**

Universal safety relay
SNO 4083KM

Equipped for many cases





Elevator systems

Position monitoring of the elevator car, door monitoring and access control of the waiting area must take place safely and reliably. The SNO 4083KM has been tested and certified for these applications according to EN 81-1.



Machine construction

The universality of these relays permits safety functions such as reliable position monitoring, emergency stop and non-contact protective equipment to be monitored with a single device, even under harsh conditions.





Thermal processes

Approval according to EN 50156-1 is also required for industrial thermal processes. Here too, SNO 4083KM can take on a multitude of monitoring tasks. High environmental temperatures of up to 65 °C pose no problems.

SNO 4083KM

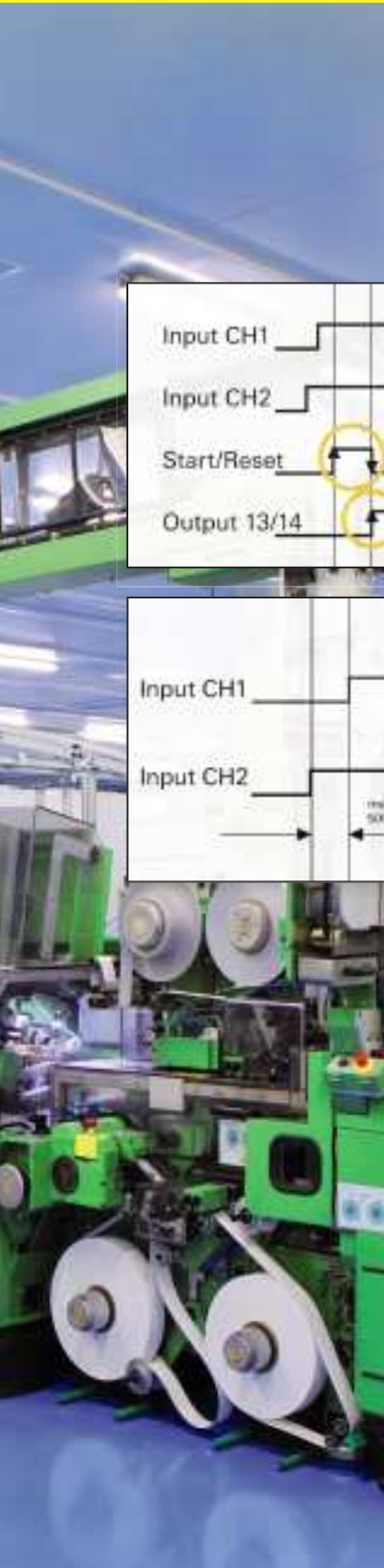
The universal, intelligent safety relay



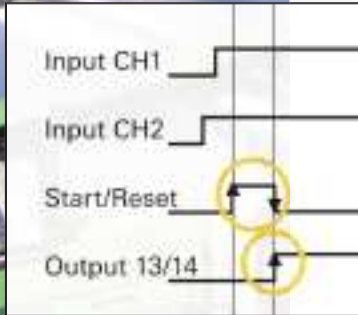
Heating / burner installations

The SNO 4083KM carries approval according to EN 50156-1. This makes it suitable for use in burner installations, e.g. for emergency stop functions, for monitoring fill levels or fuel supply as well as flames and pre-aeration. A range of supplementary devices with the required approval is also available.





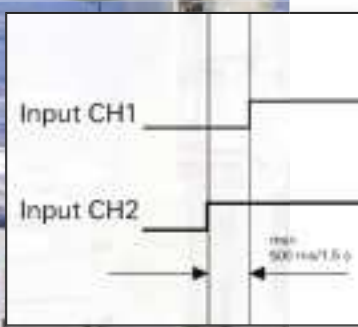
More safety



SAFE START

Safe Start

The monitoring of the rising and falling flanks after the input circuit closes, unique for safety relays, prevents undesired release due to faulty switches or manipulation.



CH1
.....
t_{sync}
.....
CH2

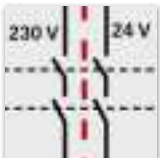
Synchronous time monitoring

Monitoring sensor input synchronous time ensures that faulty sensors or improper sensor adjustment are detected.


CROSSMON

Test signal

A test signal on the sensor side ensures fast fault detection of cross circuits which other devices only recognize once intervention is required.



Safe separation (complying with EN 50178)

The safe separation enables switching between different potentials (e.g. 24 V and 230 V) within a single device. This both increases safety and saves space in the control cabinet.

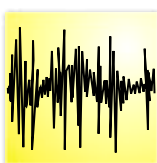


Higher availability

MONO-FLOP

Monoflop function

Debouncing shorter sensor signals means a reliable reset is possible at any time. Long down times and deploying expensive maintenance personnel are avoided.



Reliability

The rugged, high quality design permits reliable function – even under harsh environmental conditions such as high temperatures (up to 65 °C) or vibrations.



Intelligent diagnosis

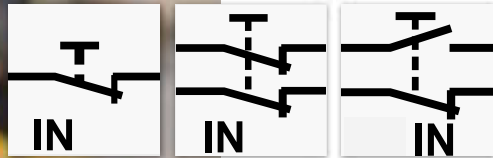
A practice-oriented blink code displays typical faults (e.g. synchronous time faults, cross circuits, temperature, etc.) to significantly shorten troubleshooting for the service technician. Down times are reduced to the minimum.



You will find additional information in our catalog „Safety first“
Order no. 0860.1



Universality down the entire line



Versatile sensors

- All current types of sensors can be evaluated
- One- and two-channel sensors
- Equivalent (NC/NC) or antivalent (NC/NO) sensors



Versatile start functions

- Automatic reset
- Manual reset with **SAFE START**



Industrial approvals

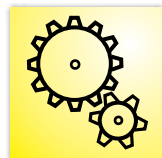
• EN 81 elevator systems

The type examination verifies suitability for the increasing requirements on safety switching devices in elevator applications.



• EN 50156 Combustion installations

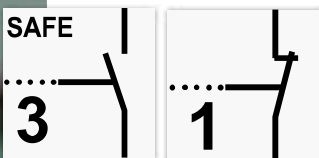
Approval for this sector permits use with thermal processes in industry and also in the areas heating and energy supply.



• Machine construction

The SNO 4083KM is suitable for numerous functions in machine construction– even under harsh environmental conditions.

Wieland offers a wide range of products for these industrial sectors. We would be pleased to advise you.



Compactness

Universal functionality in connection with 3 releases (NO) and one signal contact (NC) within the smallest space in the control cabinet – plus safe separation!



pending



pending



pending

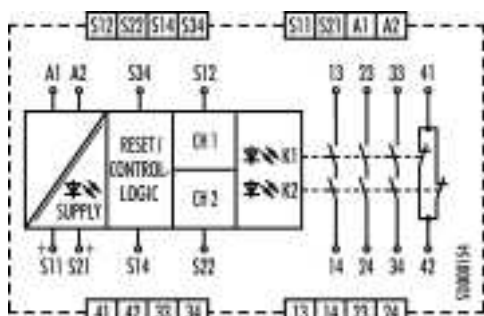
Product information

Plug-in terminals with coding

Plug-in coded terminals with spring tension and screw connection reduce assembly times



Connection plan



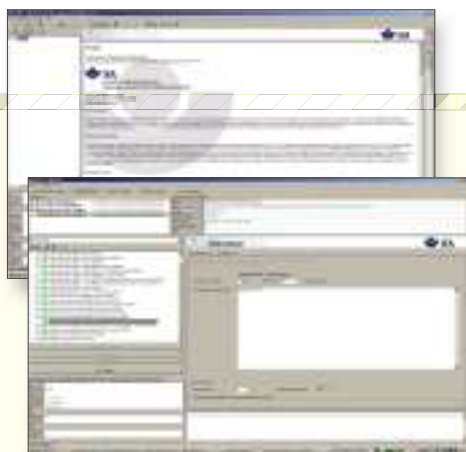
The company's environmental achievements have been evaluated by independent reviewers during audits complying with ISO 140001:2004 and environmental checks complying with **EMAS**.

Device overview | Order number

Type	Nominal voltage	Synchronous time	Terminals	Order number	UNIT
SNO 4083KM-A	24 V DC	1,5 s	Screw terminal, plug-in	R1.188.3580.0	1
SNO 4083KM-A	115-230 V AC	1,5 s	Screw terminal, plug-in	R1.188.3590.0	1
SNO 4083KM-C	24 V DC	1,5 s	Spring terminal, plug-in	R1.188.3600.0	1
SNO 4083KM-C	115-230 V AC	1,5 s	Spring terminal, plug-in	R1.188.3610.0	1
SNO 4083KM-A	24 V DC	0,5 s	Screw terminal, plug-in	R1.188.3830.0	1
SNO 4083KM-A	115-230 V AC	0,5 s	Screw terminal, plug-in	R1.188.3840.0	1
SNO 4083KM-C	24 V DC	0,5 s	Spring terminal, plug-in	R1.188.3850.0	1
SNO 4083KM-C	115-230 V AC	0,5 s	Spring terminal, plug-in	R1.188.3860.0	1

Wieland software tools

SISTEMA library



EPLAN – Support during projection

EPLAN data and macros, which are an integral component to support automation projects, can be easily downloaded from the Wieland homepage www.wieland-electric.com





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