schleicher
control systems

EN 62061 **SILCL**

EN ISO 13849-1 **PL**

EN ISO 13849-1 **Kat**

Schleicher relays

Safety switches

Innovation and quality bring success

The EU Machinery Directive stipulates that machinery must not pose any danger. This requires safety concepts that ensure maximum protection for humans and machines on a variety of levels. Safety relays must therefore be easy to use and give a reliable response.

Schleicher safety relays meet the safety standards of DIN ISO 13849 and DIN EN 61062, and fulfil the technical requirements for relay technology with positively-driven contacts in accordance with EN 50205.

Evaluation units for emergency stop buttons and safety gates

+ Emergency stop, safety gates, safety mats and light grid applications
+ Devices are also suitable for use in processing signals from the output switching elements (OSSD) of a light grid in accordance with DIN EN 61496-1
+ Devices are also suitable for evaluation of safety mats in accordance with DIN EN 1760-1

End-position monitoring of moving machinery components

+ Protection of people and machines
+ In conjunction with automation systems
+ For immediate interruption of the power supply – stop category 0
+ Monitoring of sliding safety gates
+ Protective measures in safety subsections
+ Extensive plants (e.g. sewage treatment)

Monitoring of two-handed operation

+ Protection of operating personnel from risks associated with moving parts
+ For immediate interruption of the energy supply
+ Monitoring of two-hand applications
+ Monitoring of safety guards
+ Protection of people and machines

Schleicher Electronic GmbH & Co. KG
Pichelswerderstr. 3-5
13597 Berlin, Germany

Tel. +49 30 33005-0
info@schleicher-electronic.com
www.schleicher-electronic.com

schleicher
control systems

Overview of safety switches
The type overview includes a selection of the latest devices; additional types are available on request.

		SNA 4043 K	SNA 4044 K	SNA 4063 K	SNA 4064 K	SNO 2005	SNO 4003 K plus	SNO 4062 K	SNO 4062 KM	SNO 4063 K	SNO 4063 KM	SNO 5002 K plus	SNV 4063 KL	SNV 4063 KP	SNZ 4052 K plus	SNE 4003 K	SNE 4004 K	SNE 4004 KV
APPLICATION	Emergency stop	•	•	•	•	•	•	•	•	•	•	•	•	•				
	Safety gate	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	Safety mats, strips, edges, bumpers								•		•							
	Light grids, inductive sensors		•	•	•			•	•	•	•	•	•	•				
	Controlled shutdown												•					
	Access delay													•				
	Type III C two-handed monitoring														•			
	Contact output extension															•	•	•
CATEGORY	Device category [A]	4	4	4	4	4	3	4	4	4	4	3	4/3[1]	4/3[2]	4	-[3]	-[3]	-[3]
	Performance level [B]	e	e	e	e	e	d	e	e	e	e	d	e	e	e	-[3]	-[3]	-[3]
	SILCL [C]	3	3	3	3	3	2	3	3	3	3	2	3	3	3	-[3]	-[3]	-[3]
	Stop category [D]	0	0	0	0	0	0	0	0	0	0	0	0/1	0	0	-[3]	-[3]	1[3]
INPUTS	Single-channel contacts	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•
	Semiconductors	•	•	•	•	•	•	•	•	•	•	•	•	•		•		
	Dual-channel contacts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Semiconductors	•	•	•	•	•		•	•	•	•		•	•		•		
OUTPUTS	Close release, instantaneous	3	4	3	4	3	3	2	2	3	3	2	2	2	2	3	4	
	Close release, on-delayed													1				
	Close release, off-delayed												1					4
	Open indicator, undelayed	1				1	1	1	1			1			1	2	3	
	Open indicator, off-delayed																	4
	Wiper indicator, undelayed (closing)																	
NOMINAL VOLTAGE	DC 12 V									•								
	DC 24 V					•	•					•	•	•	•	•		•
	AC 24 V					•												
	AC/DC 24 V	•	•	•	•			•	•	•	•						•	
	AC 115 V					•												
	AC 115 - 120 V	•	•	•	•		•			•					•			
	AC 120 V					•												
	AC 230 V	•	•	•	•	•				•					•			
SPECIAL FEATURES	Manual start function	•	•	•	•	•	•	•	•	•	•	•	•	•				
	Automatic start function [1]	•	•	•	•	•	•	•	•	•	•	•	•	•				
	Automatic start function in operation	•	•	•	•													
	Compatible with semiconductors	•	•	•	•	•		•	•	•	•		•	•				
	Reset button monitoring						•	•	•	•	•	•	•	•				
	Short-circuit detection	•	•	•	•	•		•	•	•	•		•	•				
	Simultaneity monitoring					•		•		•			•	•	•			
	Input debouncing								•		•							
	Response delay													•				
	Off-delay												•					•
	Secure isolation between circuits					•	•					•				•		
HOUSING WIDTH	22.5 mm / 0.9 in	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
	45.0 mm / 1.8 in					•												

A = safety category EN ISO 13849-1
B = performance level EN ISO 13849-1
C = SIL IEC 62061
D = stop category EN 60204-1

1 = instantaneous / off-delayed enabling current paths
2 = instantaneous / on-delayed enabling current paths
3 = category independent of the base unit and wiring

Schleicher Electronic GmbH & Co. KG
Pichelswerderstr. 3-5
13597 Berlin, Germany

Tel. +49 30 33005-0
info@schleicher-electronic.com
www.schleicher-electronic.com