

Basic-Device for Emergency-Stop-Monitoring

- Stop-Category 0 acc. EN 60204-1
- Applications up to Category 4 acc. EN 954-1
- Manual or automatic reset
- With or without cross monitoring
- One or two-channel wiring
- 3 NO safety contacts
- 1 NC auxiliary contact
- External device monitoring (EDM)
- Compact housing



Uses

- Protection of persons and machines
- Emergency-Stop-Monitoring
- Safety Door-Monitoring
- Switching of power-contactors
- Elevators
- Burner controls

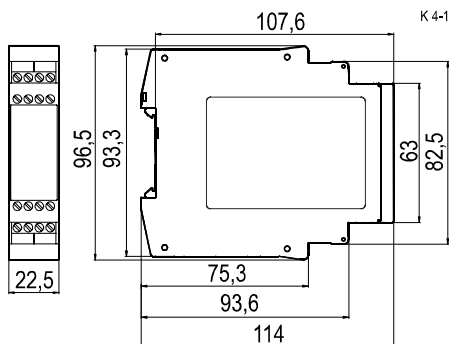
Function

This device is a two-channel safety switching device for emergency stop applications with self-monitoring on each ON-OFF cycle. It conforms to EN 60204-1 and is equipped with positively driven relays. After supply voltage has been connected to terminals A1/A2 and the safety inputs closed, operating the reset button closes the enabling current paths (manual start). When the safety inputs are opened/de-excited the enabling current paths will open.

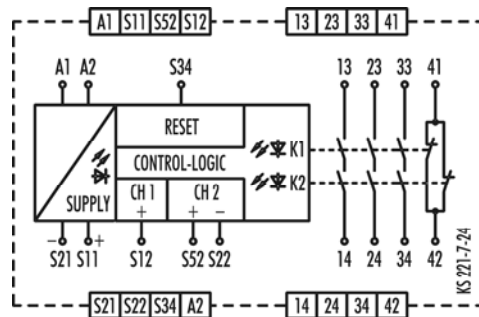
Notes

- The safety category according to EN 954 - 1 also depends from the external circuit, the choice of the control station and is location on the machine.
- To multiply the enabling current paths, the expansion units or external contactive elements with positively driven contacts can be used.
- The devices must be installed in a cabinet with a protection class of at least IP 54.

Dimension

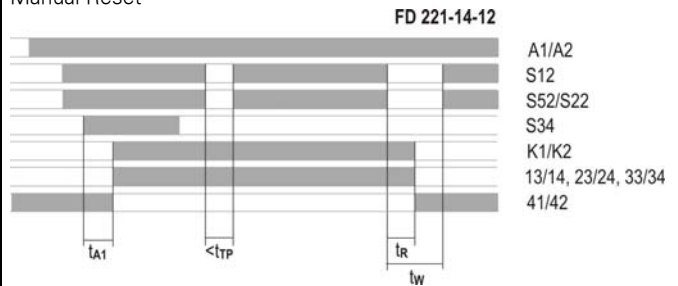


Connection Diagram

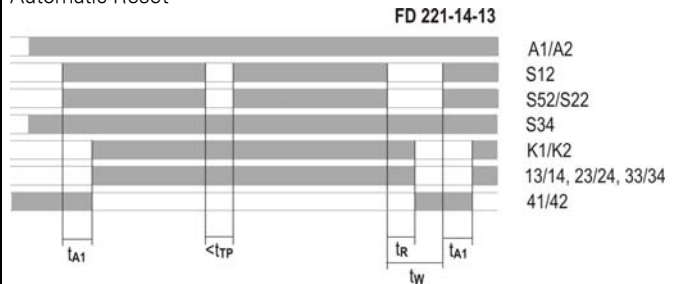


Function Diagram

Manual Reset



Automatic Reset



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Subject to change!

Technical Data		SNA 4043K / SNA 4043K-A / SNA 4043K-C			
Function acc. EN 60204-1	Emergency-Stop-Device				
Function display	3 LED, green				
Functional Diagram	FD 0221-14-12 (Manual Reset), FD 221-14-13 (Automatic Reset)				
Supply circuit					
Rated voltage AC / DC	AC/DC 24 V / AC 42-48 V / AC 115-120 V / AC 230 V				
Rated power AC/DC 24V-Device	1,6 W / 2,9 VA				
Rated power AC-Devices	2,2 W / 2,5 VA				
Residual ripple U _{ss}	2,4 V				
Rated Frequency	50 – 60 Hz				
Operating range	0,85 – 1,1 x U _N				
Control circuit					
Isolation between A1, A2 and control circuit	AC-Device				
Max. impedance of conductors (1-channel input, at rated voltage)	< 70 Ω				
Rated voltage S11	< DC 40 V				
Rated current/peak current S12, S52, S22	25 mA / 100 mA				
Rated current/peak current S34	5 mA / 100 mA				
Response time t _{A1}	350 ms				
Duration of external testpulse (on S12, S52) t _{TP}	< 1 ms				
Release time t _R	10 ms				
Recovery time t _w	500 ms				
Output circuit					
Contacts	3 NO (Safety contact), 1 NC (Auxiliary contact)				
Contact type	Forcebly guided				
Contact material	Ag-Alloy				
Rated switching voltage U _n	AC 230 V				
Max. rated current I _n per contact (AC/DC 24 V-Device / AC-Devices)	8 A				
Max. total current I ² of all contacts	AC/DC 24V-Device	65 A ² (T _A = + 45 °C) / 25 A ² (T _A = + 65 °C)			
	AC-Devices	50 A ² (T _A = + 45 °C) / 10 A ² (T _A = + 65 °C)			
Application category acc. EN 60947-5-1	AC-15: U _e 230 V AC, I _e 5 A DC-13: U _e 24 V DC, I _e 5 A				
Short-circuit protection, (AC/DC 24 V-Device / AC-Devices)	8 A (slow-acting fuse)				
Mechanical life cycle	10 ⁷				
General data					
Creepage and clearance between circuits	acc. EN 60664-1				
Rated surge voltage	4 kV				
Overtoltage category	III				
Contamination level (outside / inside)	3 / 2				
Rated voltage	300 V AC				
Test-voltage U _{eff} 50 Hz	2 kV				
Protection degree acc. DIN EN 60529 (housing/terminals)	IP 40 / IP 20				
Ambient temperature T _A , working range	-25 - +65 °C				
Cross sections fine-wired/single-wired or fine-wired with ferrule acc. DIN 46228	2 x 0,14 – 0,75 mm ² / 1 x 0,14 – 2,5 mm ² 2 x 0,25 – 0,5 mm ² / 1 x 0,25 – 2,5 mm ²				
Stud torque max.	0,5 – 0,6 Nm				
Weight (AC/DC 24 V-Device / AC-Devices)	0,21 / 0,25 kg				
Approbations	TÜV, cULus				
Standards	EN 62061, EN 954-1, prEN ISO 13849-1, EN 81-1, EN 50156-1				
Type Overview / Ordering Numbers					
Type	Voltage	Dimensions	Terminals	Ordering Number	PU
SNA 4043K	AC/DC 24 V	K 4-1	Screw-terminals fixed	R1.188.1680.0	1
SNA 4043K	AC 42-48 V	K 4-1	Screw-terminals fixed	R1.188.1690.0	1
SNA 4043K	AC 115-120 V	K 4-1	Screw-terminals fixed	R1.188.1700.0	1
SNA 4043K	AC 230 V	K 4-1	Screw-terminals fixed	R1.188.1710.0	1
SNA 4043K-A	AC/DC 24 V	K 4-2	Screw-terminals pluggable	R1.188.1810.0	1
SNA 4043K-A	AC 42-48 V	K 4-2	Screw-terminals pluggable	R1.188.1820.0	1
SNA 4043K-A	AC 115-120 V	K 4-2	Screw-terminals pluggable	R1.188.1830.0	1
SNA 4043K-A	AC 230 V	K 4-2	Screw-terminals pluggable	R1.188.1840.0	1
SNA 4043K-C	AC/DC 24 V	K 4-3	Spring-force-terminals pluggable	R1.188.1940.0	1



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Basic-Device for Emergency-Stop-Monitoring

- Stop-Category 0 acc. EN 60204-1
- Applications up to Category 4 acc. EN 954-1
- Manual or automatic reset
- With or without cross monitoring
- One or two-channel wiring
- 4 NO safety contacts
- External device monitoring (EDM)
- Compact housing



Uses

- Protection of persons and machines
- Emergency-Stop-Monitoring
- Safety Door-Monitoring
- Switching of power-contactors
- Elevators
- Burner controls

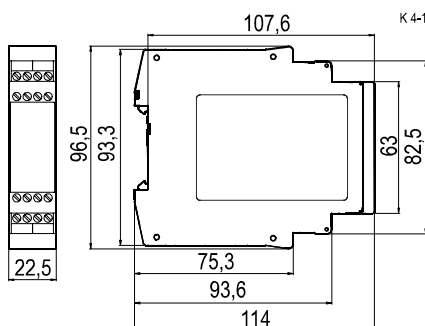
Function

This device is a two-channel safety switching device for emergency stop applications with self-monitoring on each ON-OFF cycle. It conforms to EN 60204-1 and is equipped with positively driven relays. After supply voltage has been connected to terminals A1/A2 and the safety inputs closed, operating the reset button closes the enabling current paths (manual start). When the safety inputs are opened/de-excited the enabling current paths will open.

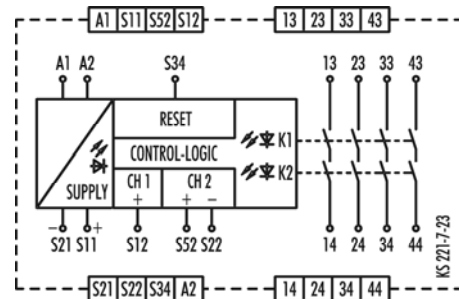
Notes

- The safety category according to EN 954 - 1 also depends from the external circuit, the choice of the control station and is location on the machine.
- To multiply the enabling current paths, the expansion units with positively driven contacts can be used.
- The devices must be installed in a cabinet with a protection class of at least IP 54.

Dimension

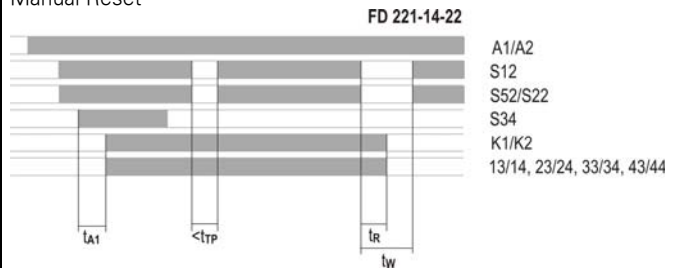


Connection Diagram

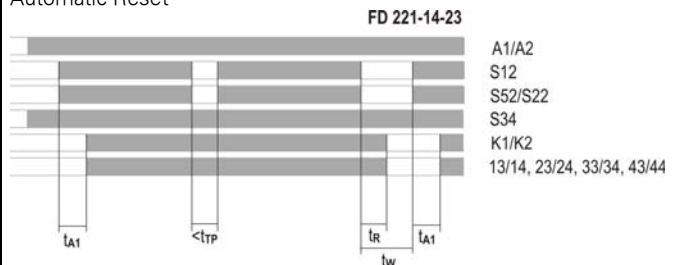


Function Diagram

Manual Reset



Automatic Reset



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Subject to change!

Technical Data		SNA 4044K / SNA 4044K-A / SNA 4044K-C			
Function acc. EN 60204-1	Emergency-Stop-Device				
Function display	3 LED, green				
Functional Diagram	FD 0221-14-22 (Manual Reset), FD 221-14-23 (Automatic Reset)				
Supply circuit					
Rated voltage AC / DC	AC/DC 24 V / AC 42-48 V / AC 115-120 V / AC 230 V				
Rated power AC/DC 24V-Device	1,6 W / 2,9 VA				
Rated power AC-Devices	2,2 W / 2,5 VA				
Residual ripple U _{ss}	2,4 V				
Rated Frequency	50 – 60 Hz				
Operating range	0,85 – 1,1 x U _N				
Control circuit					
Isolation between A1, A2 and control circuit	AC-Device				
Max. impedance of conductors (1-channel input, at rated voltage)	< 70 Ω				
Rated voltage S11	< DC 40 V				
Rated current/peak current S12, S52, S22	25 mA / 100 mA				
Rated current/peak current S34	5 mA / 100 mA				
Response time t _{A1}	350 ms				
Duration of external testpulse (on S12, S52) t _{TP}	< 1 ms				
Release time t _R	10 ms				
Recovery time t _w	500 ms				
Output circuit					
Contacts	4 NO (Safety contact)				
Contact type	Forcebly guided				
Contact material	Ag-Alloy				
Rated switching voltage U _n	AC 230 V				
Max. rated current I _n per contact (AC/DC 24V-Device / AC-Devices)	8 A				
Max. total current I ² of all contacts	AC/DC 24V-Device	65 A ² (T _A = + 45 °C) / 25 A ² (T _A = + 65 °C)			
	AC-Devices	50 A ² (T _A = + 45 °C) / 10 A ² (T _A = + 65 °C)			
Application category acc. EN 60947-5-1	AC-15: U _e 230 V AC, I _e 5 A DC-13: U _e 24 V DC, I _e 5 A				
Short-circuit protection, (AC/DC 24 V-Device / AC-Devices)	8 A (slow-acting fuse)				
Mechanical life cycle	10 ⁷				
General data					
Creepage and clearance between circuits	acc. EN 60664-1				
Rated surge voltage	4 kV				
Overtoltage category	III				
Contamination level (outside / inside)	3 / 2				
Rated voltage	300 V AC				
Test-voltage U _{eff} 50 Hz	2 kV				
Protection degree acc. DIN EN 60529 (housing/terminals)	IP 40 / IP 20				
Ambient temperature T _A , working range	-25 - +65 °C				
Cross sections fine-wired/single-wired or fine-wired with ferrule acc. DIN 46228	2 x 0,14 – 0,75 mm ² / 1 x 0,14 – 2,5 mm ² 2 x 0,25 – 0,5 mm ² / 1 x 0,25 – 2,5 mm ²				
Stud torque max.	0,5 – 0,6 Nm				
Weight (AC/DC 24 V-Device / AC-Devices)	0,21 / 0,25 kg				
Approbations	TÜV, cULus				
Standards	EN 62061, EN 954-1, prEN ISO 13849-1, EN 81-1, EN 50156-1				
Type Overview / Ordering Numbers					
Type	Voltage	Dimensions	Terminals	Ordering Number	PU
SNA 4044K	AC/DC 24 V	K 4-1	Screw-terminals fixed	R1.188.1730.0	1
SNA 4044K	AC 42-48 V	K 4-1	Screw-terminals fixed	R1.188.1740.0	1
SNA 4044K	AC 115-120 V	K 4-1	Screw-terminals fixed	R1.188.1750.0	1
SNA 4044K	AC 230 V	K 4-1	Screw-terminals fixed	R1.188.1760.0	1
SNA 4044K-A	AC/DC 24 V	K 4-2	Screw-terminals pluggable	R1.188.1860.0	1
SNA 4044K-A	AC 42-48 V	K 4-2	Screw-terminals pluggable	R1.188.1870.0	1
SNA 4044K-A	AC 115-120 V	K 4-2	Screw-terminals pluggable	R1.188.1880.0	1
SNA 4044K-A	AC 230 V	K 4-2	Screw-terminals pluggable	R1.188.1890.0	1
SNA 4044K-C	AC/DC 24 V	K 4-3	Spring-force-terminals pluggable	R1.188.1960.0	1



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- Stop-Category 0 acc. EN 60204-1
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- With or without cross monitoring
- One or two-channel wiring
- 3 NO safety contacts
- 1 NC auxiliary contact
- External device monitoring (EDM)
- Compact housing



Uses

- Protection of persons and machines
- Emergency-Stop-Monitoring
- Safety Door-Monitoring
- Switching of power-contactors
- Elevators
- Burner controls

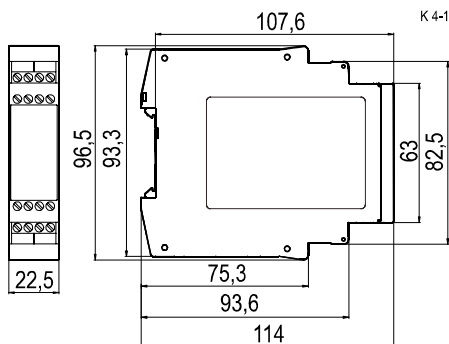
Function

This device is a two-channel safety switching device for emergency stop applications with self-monitoring on each ON-OFF cycle. It conforms to EN 60204-1 and is equipped with positively driven relays. After supply voltage has been connected to terminals A1/A2 and the safety inputs closed, operating the reset button closes the enabling current paths (manual start). When the safety inputs are opened/de-excited the enabling current paths will open.

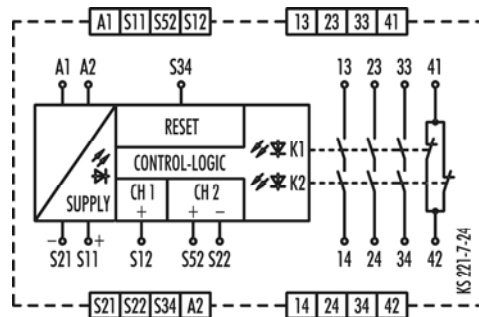
Notes

- The safety category according to EN 954 - 1 also depends from the external circuit, the choice of the control station and is location on the machine.
- To multiply the enabling current paths, the expansion units or external contactive elements with positively driven contacts can be used.
- The devices must be installed in a cabinet with a protection class of at least IP 54.

Dimension

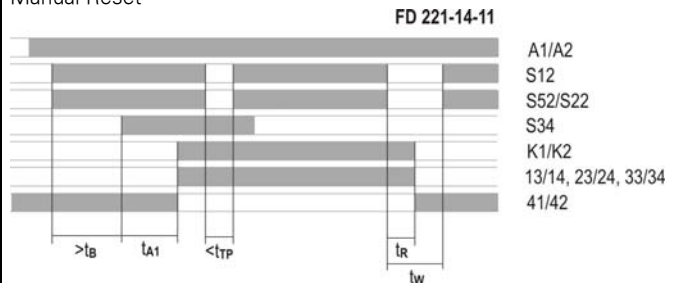


Connection Diagram



Function Diagram

Manual Reset



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Subject to change!

Technical Data		SNA 4063K / SNA 4063K-A / SNA 4063K-C			
Function acc. EN 60204-1	Emergency-Stop-Device				
Function display	3 LED, green				
Functional Diagram	FD 0221-14-11 (Manual Reset)				
Supply circuit					
Rated voltage AC / DC	AC/DC 24 V / AC 42-48 V / AC 115-120 V / AC 230 V				
Rated power AC/DC 24V-Device	1,6 W / 2,9 VA				
Rated power AC-Devices	2,2 W / 2,5 VA				
Residual ripple U _{ss}	2,4 V				
Rated Frequency	50 – 60 Hz				
Operating range	0,85 – 1,1 x U _N				
Control circuit					
Isolation between A1, A2 and control circuit	AC-Device				
Max. impedance of conductors (1-channel input, at rated voltage)	< 70 Ω				
Rated voltage S11	< DC 40 V				
Rated current/peak current S12, S52, S22	25 mA / 100 mA				
Rated current/peak current S34	5 mA / 100 mA				
Standby time t _b	300 ms				
Response time t _{A1}	30 ms				
Duration of external testpulse (on S12, S52) t _{TP}	< 1 ms				
Release time t _R	10 ms				
Recovery time t _w	500 ms				
Output circuit					
Contacts	3 NO (Safety contact), 1 NC (Auxiliary contact)				
Contact type	Forcebly guided				
Contact material	Ag-Alloy				
Rated switching voltage U _n	AC 230 V				
Max. rated current I _n per contact (AC/DC 24V-Device / AC-Devices)	8 A				
Max. total current I ² of all contacts	AC/DC 24V-Device	65 A ² (T _A = + 45 °C) / 25 A ² (T _A = + 65 °C)			
	AC-Devices	50 A ² (T _A = + 45 °C) / 10 A ² (T _A = + 65 °C)			
Application category acc. EN 60947-5-1	AC-15: U _e 230 V AC, I _e 5 A DC-13: U _e 24 V DC, I _e 5 A				
Short-circuit protection, (AC/DC 24 V-Device / AC-Devices)	8 A (slow-acting fuse)				
Mechanical life cycle	10 ⁷				
General data					
Creepage and clearance between circuits	acc. EN 60664-1				
Rated surge voltage	4 kV				
Overvoltage category	III				
Contamination level (outside / inside)	3 / 2				
Rated voltage	300 V AC				
Test-voltage U _{eff} 50 Hz	2 kV				
Protection degree acc. DIN EN 60529 (housing/terminals)	IP 40 / IP 20				
Ambient temperature T _A , working range	-25 - +65 °C				
Cross sections fine-wired/single-wired or fine-wired with ferrule acc. DIN 46228	2 x 0,14 – 0,75 mm ² / 1 x 0,14 – 2,5 mm ² 2 x 0,25 – 0,5 mm ² / 1 x 0,25 – 2,5 mm ²				
Stud torque max.	0,5 – 0,6 Nm				
Weight (AC/DC 24 V-Device / AC-Devices)	0,21 / 0,25 kg				
Approbations	TÜV, cULus				
Standards	EN 62061, EN 954-1, prEN ISO 13849-1, EN 81-1, EN 50156-1				
Type Overview / Ordering Numbers					
Type	Voltage	Dimensions	Terminals	Ordering Number	PU
SNA 4063K	AC/DC 24 V	K 4-1	Screw-terminals fixed	R1.188.1620.0	1
SNA 4063K	AC 42-48 V	K 4-1	Screw-terminals fixed	R1.188.1720.0	1
SNA 4063K	AC 115-120 V	K 4-1	Screw-terminals fixed	R1.188.1420.0	1
SNA 4063K	AC 230 V	K 4-1	Screw-terminals fixed	R1.188.1430.0	1
SNA 4063K-A	AC/DC 24 V	K 4-2	Screw-terminals pluggable	R1.188.1440.0	1
SNA 4063K-A	AC 42-48 V	K 4-2	Screw-terminals pluggable	R1.188.1850.0	1
SNA 4063K-A	AC 115-120 V	K 4-2	Screw-terminals pluggable	R1.188.1450.0	1
SNA 4063K-A	AC 230 V	K 4-2	Screw-terminals pluggable	R1.188.1460.0	1
SNA 4063K-C	AC/DC 24 V	K 4-3	Spring-force-terminals pluggable	R1.188.1950.0	1



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Subject to change!

Basic-Device for Emergency-Stop-Monitoring

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Uses

- Protection of persons and machines
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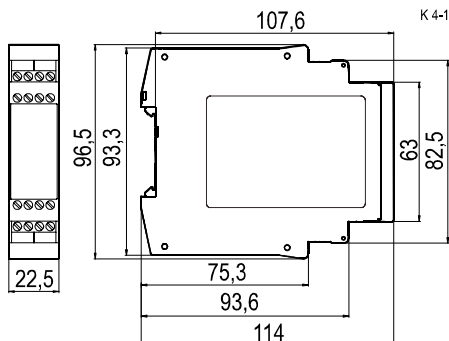
Function

This device is a two-channel safety switching device for emergency stop applications with self-monitoring on each ON-OFF cycle. It conforms to EN 60204-1 and is equipped with positively driven relays. After supply voltage has been connected to terminals A1/A2 and the safety inputs closed, operating the reset button closes the enabling current paths (manual start). When the safety inputs are opened/de-excited the enabling current paths will open.

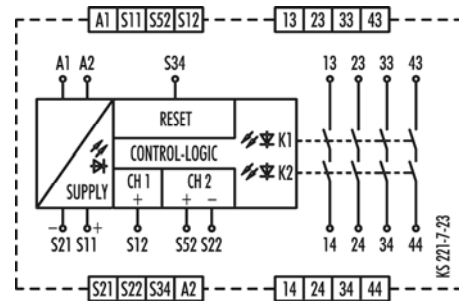
Notes

- The safety category according to EN 954 - 1 also depends from the external circuit, the choice of the control station and is location on the machine.
- To multiply the enabling current paths, the expansion units or external contactive elements with positively driven contacts can be used.
- The devices must be installed in a cabinet with a protection class of at least IP 54.

Dimension

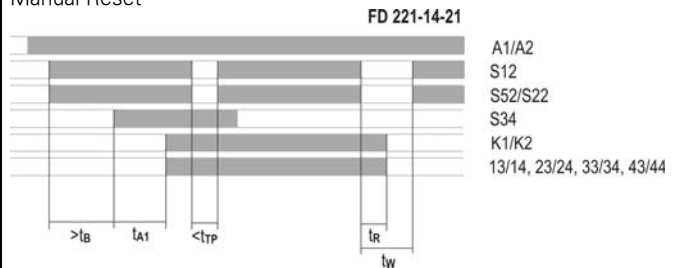


Connection Diagram



Function Diagram

Manual Reset



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Subject to change!

Technical Data		SNA 4064K / SNA 4064K-A / SNA 4064K-C			
Function acc. EN 60204-1	Emergency-Stop-Device				
Function display	3 LED, green				
Functional Diagram	FD 0221-14-21 (Manual Reset)				
Supply circuit					
Rated voltage AC / DC	AC/DC 24 V / AC 42-48 V / AC 115-120 V / AC 230 V				
Rated power AC/DC 24V-Device	1,6 W / 2,9 VA				
Rated power AC-Devices	2,2 W / 2,5 VA				
Residual ripple U _{ss}	2,4 V				
Rated Frequency	50 – 60 Hz				
Operating range	0,85 – 1,1 x U _N				
Control circuit					
Isolation between A1, A2 and control circuit	AC-Device				
Max. impedance of conductors (1-channel input, at rated voltage)	< 70 Ω				
Rated voltage S11	< DC 40 V				
Rated current/peak current S12, S52, S22	25 mA / 100 mA				
Rated current/peak current S34	5 mA / 100 mA				
Standby time t _{st}	300 ms				
Response time t _{A1}	30 ms				
Duration of external testpulse (on S12, S52) t _{TP}	< 1 ms				
Release time t _R	10 ms				
Recovery time t _w	500 ms				
Output circuit					
Contacts	4 NO (Safety contact)				
Contact type	Forcebly guided				
Contact material	Ag-Alloy				
Rated switching voltage U _n	AC 230 V				
Max. rated current I _n per contact (AC/DC 24 V-Device / AC-Devices)	8 A				
Max. total current I ² of all contacts AC/DC 24V-Device	65 A ² (T _A = + 45 °C) / 25 A ² (T _A = + 65 °C)				
AC-Devices	50 A ² (T _A = + 45 °C) / 10 A ² (T _A = + 65 °C)				
Application category acc. EN 60947-5-1	AC-15: U _e 230 V AC, I _e 4 A (360 h ⁻¹) DC-13: U _e 24 V DC, I _e 4 A (360 h ⁻¹)				
Short-circuit protection, (AC/DC 24 V-Device / AC-Devices)	8 A (slow-acting fuse)				
Mechanical life cycle	10 ⁷				
General data					
Creepage and clearance between circuits	acc. EN 60664-1				
Rated surge voltage	4 kV				
Overvoltage category	III				
Contamination level (outside / inside)	3 / 2				
Rated voltage	300 V AC				
Test-voltage U _{eff} 50 Hz	2 kV				
Protection degree acc. DIN EN 60529 (housing/terminals)	IP 40 / IP 20				
Ambient temperature, working range	-25 - +65 °C				
Cross sections fine-wired/single-wired or fine-wired with ferrule acc. DIN 46228	2 x 0,14 – 0,75 mm ² / 1 x 0,14 – 2,5 mm ² 2 x 0,25 – 0,5 mm ² / 1 x 0,25 – 2,5 mm ²				
Stud torque max.	0,5 – 0,6 Nm				
Weight (AC/DC 24 V-Device / AC-Devices)	0,21 / 0,25 kg				
Approbations	TÜV, cULus				
Standards	EN 62061, EN 954-1, prEN ISO 13849-1, EN 81-1, EN 50156-1				
Type Overview / Ordering Numbers					
Type	Voltage	Dimensions	Terminals	Ordering Number	PU
SNA 4064K	AC/DC 24 V	K 4-1	Screw-terminals fixed	R1.188.1770.0	1
SNA 4064K	AC 42-48 V	K 4-1	Screw-terminals fixed	R1.188.1780.0	1
SNA 4064K	AC 115-120 V	K 4-1	Screw-terminals fixed	R1.188.1790.0	1
SNA 4064K	AC 230 V	K 4-1	Screw-terminals fixed	R1.188.1800.0	1
SNA 4064K-A	AC/DC 24 V	K 4-2	Screw-terminals pluggable	R1.188.1900.0	1
SNA 4064K-A	AC 42-48 V	K 4-2	Screw-terminals pluggable	R1.188.1910.0	1
SNA 4064K-A	AC 115-120 V	K 4-2	Screw-terminals pluggable	R1.188.1920.0	1
SNA 4064K-A	AC 230 V	K 4-2	Screw-terminals pluggable	R1.188.1930.0	1
SNA 4064K-C	AC/DC 24 V	K 4-3	Spring-force-terminals pluggable	R1.188.1970.0	1



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