→ 2-hand control

- Type III C "2-hand control" functions according to EN 574/97
- Control device with two channels
- Level 4 according to NF.EN 954-1
- "KZH2-XS":
- 2 "N/O" safety contacts with linked contacts-6A/250 VAC "KZH3-RS" :
- 3 "N/O" safety contacts with linked contacts-6A/250 VAC
- "NC" signalling contact



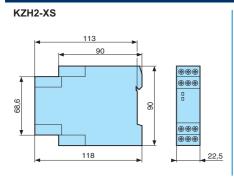


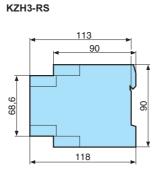


Specifications					
Туре	Supply voltage	Connections	Weight (g)	Code	
KZH2-XS	24 VAC DC	Screw terminal	230	85 100 626	
KZH3-RS	24 V AC DC	Screw terminal	310	85 100 636	
	115 V AC	Screw terminal	410	85 100 634	
	230 V AC	Screw terminal	410	85 100 635	

General characteristics	
Operating range	-15 % / +10 % of Un for AC
	-10 % / + 15 % of Un for DC
Synchronisation difference	KZH2-XS : < 500 ms
Reset time	KZH3-RS / < 500 ms
Response time on release of control device	KZH3-RS: < 20 ms
Maximum response time on emergency stop at Un	KZH3-RS: < 20 ms
Number of safety circuits	KZH2-XS: 2 "N/O" AgSnO2 contacts
•	KZH3-RS: 3 "N/O" AgSnO2 contacts
Number of data circuits	KZH3-RS : 1 "NC" AgSnO2 contacts
Max. absorbed power	KZH2-XS : AC 1.5 VA / DC 1.5 W
•	KZH3-RS: 24 AC 1.5 VA / 24 DC 1.5 W / 115-230 AC 3.2 VA
Dielectric strength	2.95 kV according to IEC 664-1
Resistance to tracking	Material group III
Radiated electromagnetic field	30 V / m Level X acc. to IEC 1000.4.3
· ·	80 MHz to 1GHz / 900 MHz (ENV50140 / 204)
Electrostatic discharge	15 kV in the air acc. to IEC 1000.4.2
Shock waves	Level 3 acc. to IEC 1000.4.5
	Common mode 2 kV for 24 V DC and 24 V AC
	KZH3-RS / Common mode 4 kV for 230 V AC 2kV residual current mode
Radio frequencies in common mode	10 V rms on inputs / level 3 acc. to IEC 1000.4.6
·	30 V rms on supp. / Level X acc. to IEC 1000.4.6
	150 kHz to 80 MHz (ENV 50141) acc. to IEC 1000.4.11

Dimensions







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To order, see page 6



Connections

KZH2-XS



A1-A2 Power supply Y11-Y12-Y13 / Y21-Y22-Y23 Redundant inputs with differentiated voltage for control devices

13-14/23-24 "N/O" safety contacts

KZH3-RS



A1-A2 Power supply Y11-Y12-Y13 / Y21-Y22-Y23 Redundant inputs with differentiated voltage for control devices 13-14/23-24/33-34 "N/O" safety contacts 41-42 "N/C" signalling contacts

Principles

Control devices:

The KZH2-XS and KZH3-RS can receive the following components as inputs:

- two pushbuttons with two positions "N/O" + "N/C" (Y11-Y12-Y13 and Y21-Y22-Y23)
- one or two emergency stop pushbuttons with one or two channels (A1-A2).

Control devices:

The KZH2-XS has two "N/O" safety contacts (13-14/23-24). One or more control devices may be wired up to the breaking capacity of the safety contacts: 1500 VA. However, to limit internal heating in the KZH2-XS, it is advisable not to exceed 8 A thermal for both contacts.

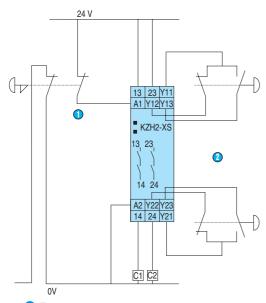
The KZH3-RS has three "N/O" safety contacts (13-14/23-24/33-34) and one "N/C" signalling contact (41/42). One or more control devices may be wired up to the breaking capacity of the safety contacts: 1500 VA. However, to limit internal heating in the KZH3-RS, it is advisable not to exceed 10 A thermal for both contacts.

Extending the number of contacts:

The number of contacts can be extended and the breaking capacity thus increased. To do this, use the KZE3-XS.

Applications

KZH2-XS



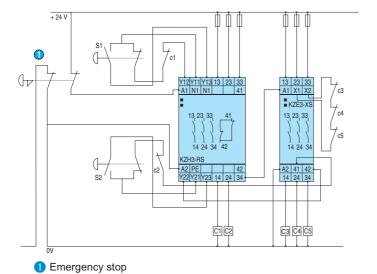
1 Emergency stop

2 2-hand control console

1 Emergency stop

2 Signalling







Safety relay: general characteristics

- → Emergency stop
- **→** Timed contacts
- **→** Extension relay
- → Zero speed monitoring
- → 2-hand control

Supply	
Supply voltage	24 V AC 50 / 60 Hz
	24 V DC maximum ripple 10 %
On/off indication	1 power supply voltage LED
Output specification	
Туре	Volt-free outputs
Breaking capacity (V resistive)	1500 VA
Max. breaking current	6.82 A
Max. breaking voltage	440 V AC
Electrical endurance	10⁵ operations at 1500 VA resistive
	5.10⁵ operations at 500 VA resistive
Mechanical life (operations)	10 ⁷
Function and use	
On/off indication	1 internal relay status LED
Operating temperature (°C) IEC 68-2-14	0 → +50
Storage temperature (IEC 68-2-12) (°C)	-20 → +70
Internal voltage	24 V DC
EMC immunity according to EN 50082-2	
fast transients	2kV directly acc. to IEC 1000.4.4
	4 kV directly for the 230 V <ac> version</ac>
	2 Kv when coupled
Drop-out / short breaks / microbreaks	Un-30 % for 10 ms every 1 s
	Un-60 % for 100 ms every 1 s according to IEC 61496-1/97
	Un-100 % for 10 ms every 100 ms
	Un-50 % for 20 ms every 200 ms
	Un-50 % for 500 ms every 5 s
Material	Polycarbonate
Destantian Hausian	Self-extinguishing-UL94 class VO IP 40
Protection Housing Protection Terminal	IP 40
	2 x 1.5 mm ² multicore with ferrule
Tightening capacity	2 x 1.5 mm ⁻² multicore with ferrule 2 x 2.5 mm ⁻² solid conductor
Control to make the control of the c	
Spring terminals, 2 terminals per connection point - rigid wire	2.5 mm ²
Spring terminals, 2 terminals per connection point - flexible wire	1.5 mm ²