



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Emergency stop KNA3-RS Part number 85100434



- "Emergency stop" and "mobile guard monitoring" functions
- Control device with one or two channels
- 3 "N/O" safety contacts with linked contacts-6A / 250 AC
- 1 "N/C" signalling contact
- Level 4 according to NF.EN 954-1
- Integrity check on control devices
- Separate return loop
- Four input circuits

	Type	Function	Level of safety	Safety contacts	Casing	Supply voltage	Connections	Weight (g)
85100036	KNA3-XS	Emergency stopMobile guard monitoring	3	3	22,5 mm	24 V ACDC	Screw terminals	310
85100037	KNA3-XS	Emergency stopMobile guard monitoring	3	3	22,5 mm	40 - 260 V AC	Screw terminals	310
85101036	KNAC3-XS	Emergency stopMobile guard monitoring	4	3	45 mm	24 V ACDC	Spring terminals	310
85101037	KNAC3-XS	Emergency stopMobile guard monitoring	4	3	45 mm	40 - 260 V AC	Spring terminals	310
85100436	KNA3-RS	Emergency stopMobile guard monitoring	4	3	45 mm	24 V ACDC	Screw terminals	310
85100434	KNA3-RS	Emergency stopMobile guard monitoring	4	3	45 mm	115 V AC	Screw terminals	410
85100435	KNA3-RS	Emergency stopMobile guard monitoring	4	3	45 mm	230 V AC	Screw terminals	410
85100536	KZP3-RS	Emergency stopMobile guard monitoring	4	3	45 mm	24 V ACDC	Screw terminals	410

Supply voltage

On/off indication 1 power supply voltage LED

Type

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
 5x10⁵ operations at 500 VA resistive
 Mechanical life (operations) 10⁷

On/off indication

Operating temperature (°C) IEC 68-2-14 0 →+50
 Storage temperature (IEC 68-2-12) (°C) -20 →+70
 Internal voltage 24 V DC

fast transients

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
 Self-extinguishing-UL94 class VO
 Protection Housing IP 40
 Degree of terminal protection IP 20
 Connection capacity 2 x 1,5 mm² multicore with ferrule
 2 x 2,5 mm² solid conductor
 Spring terminals, 2 terminals per connection point - rigid wire 2,5 mm²
 Spring terminals, 2 terminals per connection point - flexible wire 1,5 mm²

Operating range

Reset time

Maximum response time on emergency stop < 50 ms

Number of safety circuits

Number of data circuits 1 "NC" AgSnO contacts

Max. absorbed power

Dielectric strength 2,95 kV according to CEI 664-1
 Resistance to tracking Material group III

Radiated electromagnetic field

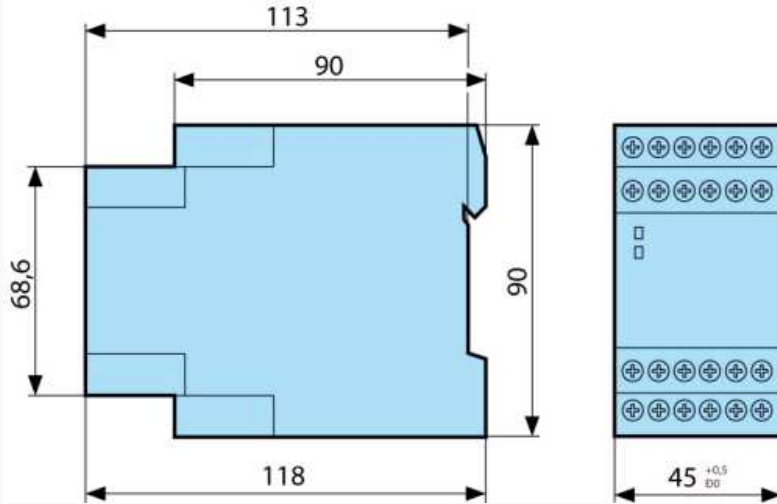
Electrostatic discharge 8 kV in the air acc. to IEC 1000.4.2
 KNA3-RS / KZP3-RS: 15 kV in the air acc. to IEC 1000.4.2
 Shock waves KNA3-XS:
 - Common mode 1 kV acc. to IEC 1000.4.5 KNA3-RS / KZP3-RS:
 - Level 3 acc. to IEC 1000.4.5
 - Common mode 2kV for 24 V and 24 V

Radio frequencies in common mode	- Common mode 4 kV for 230 V (2 kV residual current mode for KNA3-RS) KNA3-XS: - 10 V rms Level 3 according to IEC 1000.4.6 - 150 KhZ TO 80 MHz (ENV 50141) according to IEC 1000.4.11 KNA3-RS / KZP3-RS: - 30 Vrms Level X acc. to IEC 1000.4.6 150 kHz to 80 MHz (ENV 50141) according to IEC 1000.4.11
----------------------------------	---

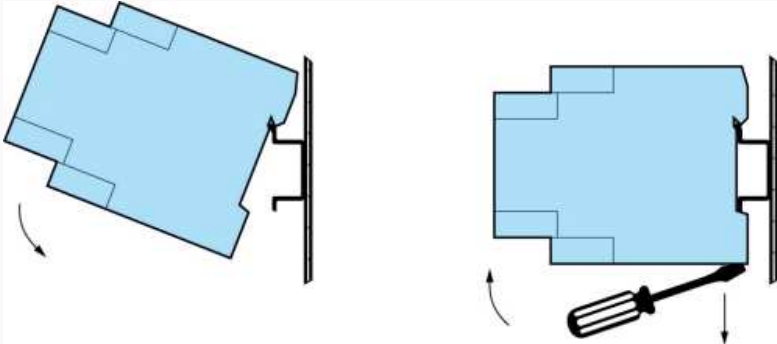
European "Machinery" Directive 89/392/EEC

French decree 92/765-766-768	•
European "Usage" Directive 89/655/EEC	•
French decree 93-40 /93-41	•
IEC 61496-1	•
IEC 664-1	•
En 50081-2	•
EN 50082-2	•
EN 60204-1	•
EN 292-1 and 2	•
Safety category to EN 954-1	Catégorie 4
EN 418	•
EN 1088	•
UL 508	UL
C22-2N°14 M91	(c) UL
GS-ET-20	BG

Dimension Diagram : KNA3-RS / KZP3-RS



Dimension Diagram : Mounting - Removing



The KZP3-RS is used to obtain and maintain a category 4 level of safety for an installation with two control devices.

Depending on the degree of safety required, KNA3-XS / KNA3-RS / KZP3-RS can receive the following components as inputs:

- pushbutton for start or validation (Y1-Y2)
- emergency stop pushbuttons with one or two contacts (A1-A2)
one or two contacts (A1-A2)
two contacts KNA3-RS: Y11-Y12 and Y21-Y22,
two contacts KZP3-RS: Y11-Y12 / Y21-Y22 and Y31-Y32 / Y41-Y42
- position sensors (limit switches) with
one or two contacts (A1-A2)
two contacts KNA3-RS: Y11-Y12 and Y21-Y22,
two contacts KZP3-RS: Y11-Y12 / Y21-Y22 and Y31-Y32 / Y41-Y42

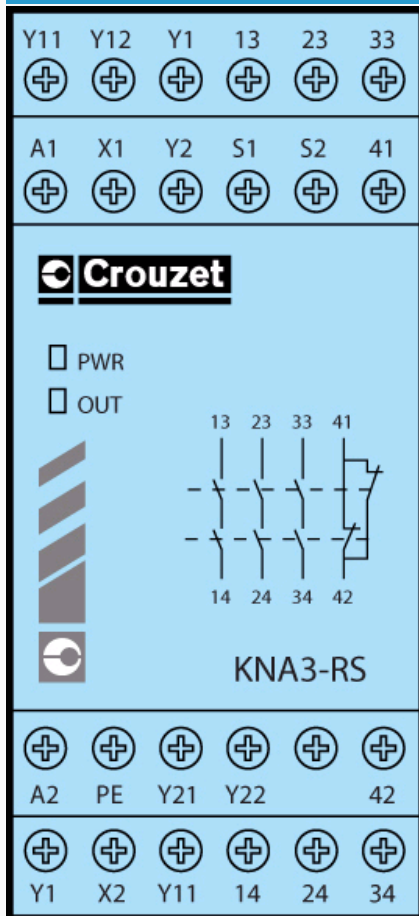
A positive break operation device must be used if a single channel is used.

To increase the degree of safety, one "N/C" auxiliary contact per power contactor is wired in series with the start (or validation) pushbutton, to ensure self-checking in this part of the installation.

The KNA3-XS 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, it is advisable not to exceed 10 A thermal for all three contacts. The signalling contact can be wired on a PLC input or integrated into a fault signalling system.

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

KNA3-RS



Lég.

A1-A2
Y11-Y12 / Y21-Y22
Y1-Y2
S1-S2
X1-X2
13-14/23-24/33-34
41-42

Legend

Power supply
Redundant inputs with differentiated voltage for control devices
Start/validation
Short-circuit protection on start / validation input
Return loop
"N/O" safety contacts
"N/C" signalling contacts