

## SAFETY RELAYS

### CE machinery certification and marking

CROUZET direct safety components combine all the elements of the machinery directive 89/392/EEC and the safety standards set by the European Community. They are an effective and fail-safe way of meeting the regulatory requirements and of obtaining conformity with the directives as well as the CE marking for your machines.

All safety components shown on this page (CE conforming, UL and CUL recognized).



### Performance and cost-effectiveness

The CROUZET range of safety components provides a simple solution to the problem of risk assessment of machine control systems.

The range of components relies on redundancy, self-checking and **positive opening** to ensure the availability and safety of machines without incurring excessive installation costs.

The safety relay range satisfies safety requirements up to Level 4 regarding EN 60204 (IEC 204) and EN 954.

# 7 RELAYS



SERIES	FUNCTION	FEATURES	OUTPUT
<b>KNA3-XS Series</b> Safety Relay	Multifunction: Emergency stop safety gate	1 input Safety Level 3 Operating voltage: 24 VAC/VDC, 40-260 VAC Width: 22.5 mm (0.90")	3 N/O safety contacts 1 auxiliary contact 6 A @ 250 VAC resistive
<b>KNA3-RS Series</b> Safety Relay	Multifunction: Emergency stop safety gate safety mats	Integrity of 2 inputs Safety Level 4 Operating voltages: 24 VDC, 24/115/230 VAC Width: 45mm (1.75")	3 N/O safety contacts 1 auxiliary contact 6 A @ 250 VAC resistive
<b>KSW2-RS Series</b> Safety Relay	Stand still (zero speed) condition of AC and DC, 1 or 3 phase motors up to 600 VAC for interlocking of safety gates.	Integrity of 2 inputs Safety Level 4 Operating voltage: 24 VAC/VDC Width: 45 mm (1.75")	6 A @ 250 VAC 1 N/O safety contact 1 NC safety contact
<b>KZH3-RS Series</b> Electrical Safety Relay	Multifunction: 2 Hand control Emergency stop Safety gates Safety mats	Integrity of 2 inputs Safety Level 4 Operating voltage: 24 VDC, 24/48/115/230 VAC Width: 45 mm (1.75")	3 N/O safety contacts 1 auxiliary contact 6 A @ 250 VAC resistive
<b>KZP3-RS Series</b> Safety Relay	Multifunction: Emergency stop Safety gate Safety mats	Category 4-4 channels Operating voltage: 24 VAC/VDC Width: 45mm (1.75")	3 N/O safety contacts 1 NC auxiliary contact 6 A @ 250 VAC resistive
<b>KZR3-RS</b>	Multifunction with timed safety contacts Emergency stop Safety gate Safety mats	Integrity of 2 inputs Safety Level 4 – instantane- ous Safety Level 3 – timed Width: 45 mm (1.75")	1 N/O safety – instantaneous 1 N/O safety – timed 1 NC safety – timed 1 NC – auxiliary – timed 6 A @ 250 VAC resistive
<b>KZE3-X2</b>	Safety Extension Unit	Operating voltage: 24 VAC/VDC, 40-260 VAC Width: 45 mm (1.75")	3 N/O safety contact 1 NC for return loop 6 A @ 250 VAC resistive