

Switching

Management Solutions



*Industrial
switching
with wide range*



Defining an **interface relay** in simple terms

An interface relay is an electromagnetic switch operated by a relatively small electric current that can turn on or off a much larger electric current.

Switching
Protection
Controlling
Filtering **Isolation**

Which actions are executed?

An interface relay is an electrically operated **switch** that is used where it is necessary to **control** a circuit by a low-power signal.

It provides complete electrical **protective isolation** between control and controlled circuits.

Filtering AC power input signals in order to prevent leakage current.

Saving money and increasing efficiency for PLC outputs.

Reduced PLC outputs to meet energy consumption goals.

Benefits and Advantages

- A wide range of power input from 6V to 230V
- DC and AC supply voltage options
- Integrated RCZ filter option
- Saving wiring time with plug-in bridges
- High quality, long useful life
- Saving space with 6.2mm design
- LED status indicator in order to see actual movement of the contacts
- Labeling with terminal block marking materials
- Highly compact and light weight
- High level of Electromagnetic compatibility (EMC) i.e. maximum immunity to interferences.
- Self-extinguishing plastic housing
- UL certificate

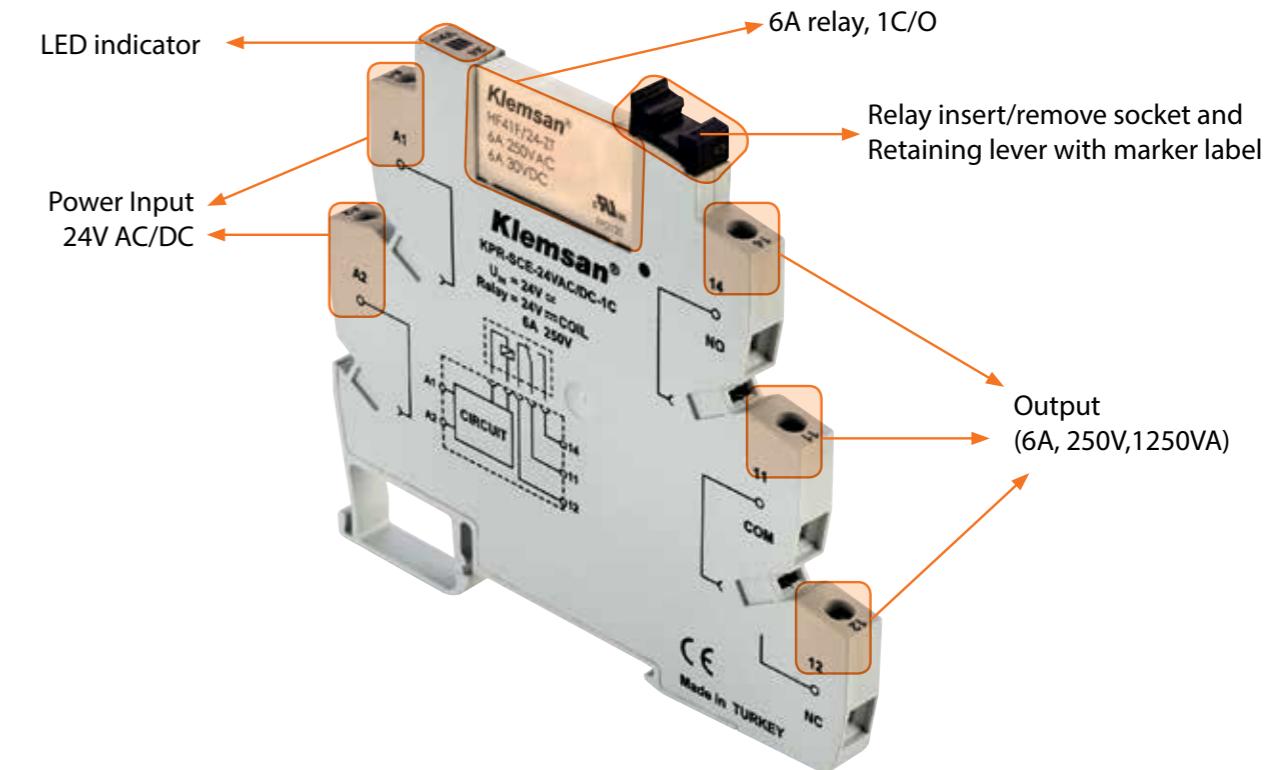
Mounting

Klemsan interface relays are suitable for snap mounting onto 35 mm standards DIN rails.

Which markets are they used frequently?

- PLC automation systems
- Electrical power plants
- Energy management systems
- Medium Voltage Panels
- Industrial Machines

Layout



KPR-SCE-24VAC/DC-1C



Automation System



Reduced PLC outputs to meet energy consumption goals



I/O CONTROL
All models

Machine Control and Safety



Provides isolation between control and controlled circuits.



ISOLATION
All models

Scada System



Lengthen PLC outputs lives by using interface relay to turn many devices on and off simultaneously.



I/O CONTROL
All models

Control Panels



It allows to control more than one load with external pluggable bridges.



I/O CONTROL
All models

Chemical Industry

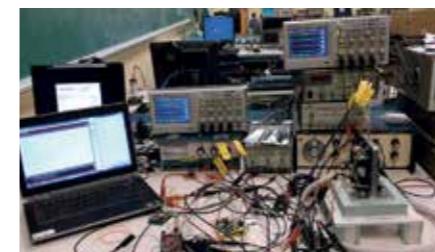


Safe isolation between inputs and outputs for pumps, compressors and air conditioning applications.



CONTROLLING
All models

Electrical Test Systems



The interface between test equipment and system/I/O devices with a high switching capacity.



CONTROLLING
All models

Pneumatic Control



Switching currents or voltage too high for PLC outputs to handle.



SWITCHING
All models

Narrow Cabinets



Only 6.2 mm wide, thus saving considerable space in your enclosures.



SPACE SAVING
All models

Leakage Current Applications

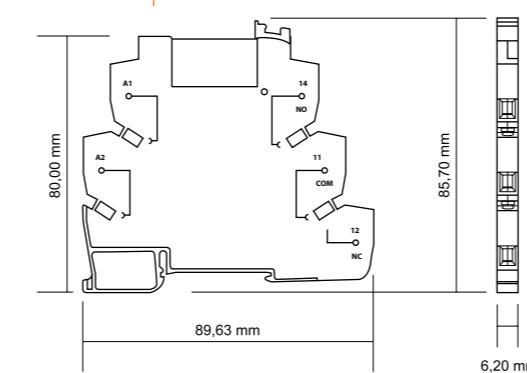
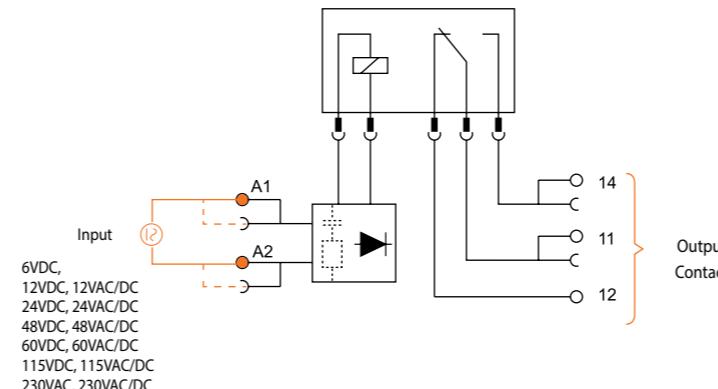


Preventing to stuck in "ON" state while the relay is switched as "OFF" which is caused by leakage current.



SWITCHING
KPR-SCF series

Type		KPR-SCE-6VDC-1C	KPR-SCE-12VAC/DC-1C	KPR-SCE-12VDC-1C	KPR-SCE-24VAC/DC-1C	KPR-SCE-24VDC-1C	KPR-SCE-48VAC/DC-1C	KPR-SCE-48VDC-1C	KPR-SCE-60VAC/DC-1C	KPR-SCE-60VDC-1C	KPR-SCE-115VAC/DC-1C	KPR-SCE-115VDC-1C	KPR-SCF-115VAC/DC-1C	KPR-SCE-230VAC/DC-1C	KPR-SCF-230VAC-1C	KPR-SCE-230VAC/DC-1C	KPR-SCF-230VAC-1C	
Accessories and Components	Relay	Type	Slim type 5VDC relay	Slim type 12VDC relay	Slim type 12VDC relay	Slim type 24VDC relay	Slim type 24VDC relay	Slim type 24VDC relay	Slim type 60VDC relay	Slim type 24VDC relay	Slim type 60VDC relay	Slim type 24VDC relay	Slim type 24VDC relay					
		Definiton	Relay for 270794 and 270795	Relay for 270800 and 270801	Relay for 270804 and 270805	Relay for 270810 and 270811	Relay for 270814 and 270815	Relay for 270820 and 270821	Relay for 270824 and 270825	Relay for 270830 and 270831	Relay for 270834 and 270835	Relay for 270840 and 270841	Relay for 270844 and 270845	Relay for 270846 and 270847	Relay for 270850 and 270851	Relay for 270852 and 270853	Relay for 270856 and 270857	Relay for 270858 and 270859
		Order Number	095043	095042	095042	095041	095041	095041	095041	095040	095040	095040	095040	095040	095041	095040	095041	
		Packaging unit	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	
	Plug-in bridge-16	Type	TK-KPR-S (KPR-SCE BRIDGE/16)															
		Definiton	Plug-in bridge for 16 hole															
		Order Number	476605															
		Packaging unit	25 pcs.															
	Plug-in bridge-8	Type	TK-KPR-S (KPR-SCE BRIDGE/8)															
		Definiton	Plug-in bridge for 8 hole															
		Order Number	476606															
		Packaging unit	50 pcs.															
	Dekafix	Type	DG 10/6T															
		Definiton	Terminal Labels for interface relays															
		Order Number	505390															
		Packaging unit	360 pcs.															



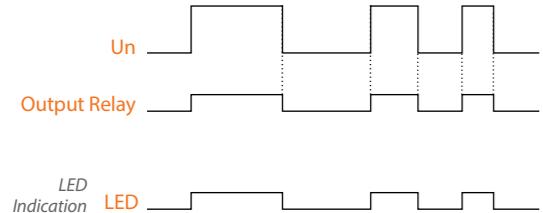
Function Diagrams

Notes

KPR Series / Switching

All Models

Figure



When nominal voltage(U_n) is applied from A1 and A2 inputs, output relay energizes and changes its position automatically. When input voltage drops below 20% of U_n , output relay de-energizes automatically.