

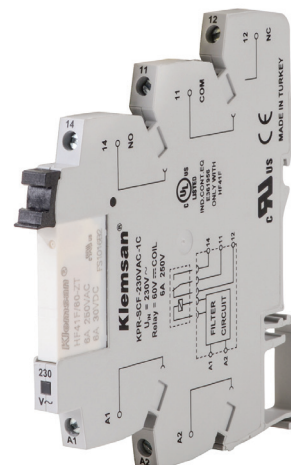
# Slim Interface Relays

## Overview

Klemsan Slim Interface Relays are highly compact and lightweight relays especially useful where cabinet space is a consideration. Encased in a self-extinguishing plastic housing, these high quality relays offer a long useful life. Great for use with PLC automation systems, electric power plants, energy management systems, medium voltage panels, industrial machines, and more.

## Features

- 35mm DIN-rail mount
- Slim 6.2 mm design
- Integrated LED indicator (On)
- Integrated resistor, capacitor, and Zener diode (RCZ) filter on select models
- For use in supply circuits where leakage current is an issue
- DC and AC supply voltage options
- Wide range of power input from 12V to 230V
- High level of electromagnetic compatibility (EMC)
- Self-extinguishing plastic housing
- Plug-in bridges
- UL certified



**KPR-SCF-230VAC-1**

## Slim Interface Relays

| Part Number                               | Price  | Description                         | Coil Voltage | Configuration | Contact Rating | Integrated RCZ Filter | Drawing Link               |
|-------------------------------------------|--------|-------------------------------------|--------------|---------------|----------------|-----------------------|----------------------------|
| <a href="#"><u>KPR-SCF-230VAC-1</u></a>   | \$9.00 | Interface relay with LED indicators | 230VAC       | SPDT          | 6A             | Yes                   | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>KPR-SCF-115VACDC-1</u></a> | \$9.00 |                                     | 115V AC/DC   |               |                | Yes                   | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>KPR-SCE-12VACDC-1</u></a>  | \$8.00 |                                     | 12V AC/DC    |               |                | No                    | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>KPR-SCE-24VACDC-1</u></a>  | \$8.00 |                                     | 24V AC/DC    |               |                | No                    | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>KPR-SCE-230VACDC-1</u></a> | \$9.00 |                                     | 230V AC/DC   |               |                | No                    | <a href="#"><u>PDF</u></a> |

## Slim Interface Relays Accessories

| Part Number                       | Price   | Description                                 | Quantity | Drawing Link               |
|-----------------------------------|---------|---------------------------------------------|----------|----------------------------|
| <a href="#"><u>APP-KPR</u></a>    | \$4.00  | Orange polyamide separator plate            | 5        | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>TK-KPR-S16</u></a> | \$13.00 | 16-pole push-in type interface relay jumper | 5        | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>TK-KPR-S8</u></a>  | \$8.00  | 8-pole push-in type interface relay jumper  | 5        | <a href="#"><u>PDF</u></a> |

Note: Relay jumpers can be cut to match the number of relays when less than 8 or 16 count.



**APP-KPR**



**TK-KPR-S16**

# Slim Interface Relays Specifications

| Slim Interface Relays Specifications |    |                                                                                                 |                                           |                                          |                                          |                                           |
|--------------------------------------|----|-------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------|-------------------------------------------|
| Part Numbers                         |    | <a href="#"><u>KPR-SCF-230VAC-1</u></a>                                                         | <a href="#"><u>KPR-SCF-115VACDC-1</u></a> | <a href="#"><u>KPR-SCE-12VACDC-1</u></a> | <a href="#"><u>KPR-SCE-24VACDC-1</u></a> | <a href="#"><u>KPR-SCE-230VACDC-1</u></a> |
| Input Specifications                 |    |                                                                                                 |                                           |                                          |                                          |                                           |
| Nominal Voltage                      |    | 230VAC                                                                                          | 115V AC/DC                                | 12V AC/DC                                | 24V AC/DC                                | 230V AC/DC                                |
| Operating voltage range              |    | 196-265 VAC                                                                                     | 98-132V AC/DC                             | 10-14V AC/DC                             | 20-28V AC/DC                             | 196-265V AC/DC                            |
| Release voltage                      |    | 92VAC                                                                                           | 46V AC/DC                                 | 5V AC/DC                                 | 10V AC/DC                                | 92V AC/DC                                 |
| Power Consumption                    | AC | <0.9 VA                                                                                         | <0.7 VA                                   | <0.35 VA                                 | <0.2 VA                                  | <1.3 VA                                   |
|                                      | DC | n/a                                                                                             | <0.6 W                                    | <0.35 W                                  | <0.2 W                                   | <1.2 W                                    |
| Contact Specifications               |    |                                                                                                 |                                           |                                          |                                          |                                           |
| Type                                 |    | 1 SPDT                                                                                          |                                           |                                          |                                          |                                           |
| Material                             |    | Silver Tin Oxide (AgSnO2)                                                                       |                                           |                                          |                                          |                                           |
| Operate time                         |    | 10ms maximum                                                                                    |                                           |                                          |                                          |                                           |
| Release time                         |    | 5ms maximum                                                                                     |                                           |                                          |                                          |                                           |
| Max Wire Size                        |    | 2.5 mm² (14AWG)                                                                                 |                                           |                                          |                                          |                                           |
| Maximum ratings                      | AC | 6A/250VAC, 1500VA                                                                               |                                           |                                          |                                          |                                           |
|                                      | DC | 6A/30VDC; 180W                                                                                  |                                           |                                          |                                          |                                           |
| Minimum Load                         |    | 6VDC 0.1 A                                                                                      |                                           |                                          |                                          |                                           |
| Mechanical life time                 |    | 10 <sup>7</sup> operations                                                                      |                                           |                                          |                                          |                                           |
| Electrical life time operations      |    | 3x10 <sup>4</sup> N.O. operations<br>1x10 <sup>4</sup> N.C. operations                          |                                           |                                          |                                          |                                           |
| Wiping Current                       |    | 10VDC 10mA, 50 cycles 15-20 Hz                                                                  |                                           |                                          |                                          |                                           |
| General Specifications               |    |                                                                                                 |                                           |                                          |                                          |                                           |
| Connection                           |    | Screw terminal                                                                                  |                                           |                                          |                                          |                                           |
| Isolation resistance                 |    | 1000MΩ (500VDC)                                                                                 |                                           |                                          |                                          |                                           |
| Dielectric strength                  |    | Between relay coil and contacts: 4000VAC for 1 minute<br>Between contacts: 1000VAC for 1 minute |                                           |                                          |                                          |                                           |
| Ambient temperature                  |    | -40 to +85°C [-40 to +185°F]                                                                    |                                           |                                          |                                          |                                           |
| Ambient humidity                     |    | 5 to 85% (no condensation)                                                                      |                                           |                                          |                                          |                                           |
| Protection rating                    |    | IP20                                                                                            |                                           |                                          |                                          |                                           |
| Mounting position                    |    | No restrictions                                                                                 |                                           |                                          |                                          |                                           |
| Maximum torque                       |    | 0.4 N•m [0.295 ft-lbs]                                                                          |                                           |                                          |                                          |                                           |
| Relay Indicator                      |    | Green LED                                                                                       |                                           |                                          |                                          |                                           |
| Weight (g [oz])                      |    | 33.4 [1.18]                                                                                     | 33.6 [1.19]                               | 33.2 [1.17]                              | 33.0 [1.16]                              | 33.2 [1.17]                               |
| Agency Approvals and Standards*      |    | UL Listed (E361956)<br>CE<br>REACH                                                              |                                           |                                          |                                          |                                           |

\* To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

# Slim Interface Relays Wiring Diagram

## Wiring Diagram

