

# Electronic Products

## KPR series PLC Interface Relays

Klemsan new PLC interface relay series with new colors is an electrically operated relay series that has 6VDC input to 230V AC/DC options and provides isolation between control circuits and controlled circuits. It is designed to provide maximum efficiency for different projects thanks to its 6.2mm width and support for both electromechanical and SSR (Solid State Relay).

- Input voltage options between 6V and 230V,
- DC and AC supply voltage options,
- Electromechanical and SSR support in the same enclosure
- Saving in cable connection time with cross-connection,
- 6A switching current under 250V AC,
- Space saving with 6.2mm design,
- LED status indicator to see the actual movement of the contacts,
- Labeling with terminal block marking materials,
- Special filter design that is not affected by voltage leaks
- Maximum resistance to interference with Electromagnetic Compatibility (EMC) certificate,
- Self-extinguishing plastic casing,
- UL certification



Product Name	Order No	Definition	6V	12V	24V	48V	60V	115V	230V	AC	DC	AC/DC	Filtered	Max. Switching Current	Dimension
KPR-SCS-6VDC-1C	271003	Interface Relay Module	√								√			6A	6,2 mm
KPR-SCS-6VDC	271004	Interface Relay Socket	√								√			6A	6,2 mm
KPR-SCS-12VAC/DC-1C	271009	Interface Relay Module		√								√		6A	6,2 mm
KPR-SCS-12VAC/DC	271010	Interface Relay Socket		√								√		6A	6,2 mm
KPR-SCS-12VDC-1C	271013	Interface Relay Module		√							√			6A	6,2 mm
KPR-SCS-12VDC	271014	Interface Relay Socket		√							√			6A	6,2 mm
KPR-SCS-24VAC/DC-1C	271019	Interface Relay Module			√							√		6A	6,2 mm
KPR-SCS-24VAC/DC	271020	Interface Relay Socket			√							√		6A	6,2 mm
KPR-SCS-24VDC-1C	271023	Interface Relay Module			√						√			6A	6,2 mm
KPR-SCS-24VDC	271024	Interface Relay Socket			√						√			6A	6,2 mm
KPR-SCS-48VAC/DC-1C	271029	Interface Relay Module				√						√		6A	6,2 mm
KPR-SCS-48VAC/DC	271030	Interface Relay Socket				√						√		6A	6,2 mm
KPR-SCS-48VDC-1C	271033	Interface Relay Module				√					√			6A	6,2 mm
KPR-SCS-48VDC	271034	Interface Relay Socket				√					√			6A	6,2 mm
KPR-SCS-60VAC/DC-1C	271039	Interface Relay Module					√					√		6A	6,2 mm
KPR-SCS-60VAC/DC	271040	Interface Relay Socket					√					√		6A	6,2 mm
KPR-SCS-60VDC-1C	271043	Interface Relay Module					√				√			6A	6,2 mm
KPR-SCS-60VDC	271044	Interface Relay Socket					√				√			6A	6,2 mm
KPR-SCS-115VAC/DC-1C	271049	Interface Relay Module						√				√		6A	6,2 mm
KPR-SCS-115VAC/DC	271050	Interface Relay Socket						√				√		6A	6,2 mm
KPR-SCS-115VDC-1C	271053	Interface Relay Module						√			√			6A	6,2 mm
KPR-SCS-115VDC	271054	Interface Relay Socket						√			√			6A	6,2 mm
KPR-SCL-115VAC/DC-1C	271055	Interface Relay Module						√				√	√	6A	6,2 mm
KPR-SCL-115VAC/DC	271056	Interface Relay Socket						√				√	√	6A	6,2 mm
KPR-SCS-230VAC/DC-1C	271059	Interface Relay Module							√			√		6A	6,2 mm
KPR-SCS-230VAC/DC	271060	Interface Relay Socket							√			√		6A	6,2 mm
KPR-SCS-230VAC-1C	271061	Interface Relay Module							√	√				6A	6,2 mm
KPR-SCS-230VAC	271062	Interface Relay Socket							√	√				6A	6,2 mm
KPR-SCL-230VAC/DC-1C	271065	Interface Relay Module							√			√	√	6A	6,2 mm
KPR-SCL-230VAC/DC	271066	Interface Relay Socket							√			√	√	6A	6,2 mm
KPR-SCL-230VAC-1C	271067	Interface Relay Module							√	√			√	6A	6,2 mm
KPR-SCL-230VAC	271068	Interface Relay Socket							√	√			√	6A	6,2 mm

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## KPR Series PLC Interface Relays



Pre-assembled module (relay + socket)		Type	KPR-SWE-6VDC-1C	KPR-SWE-12VAC/DC-1C	KPR-SWE-12VDC-1C	KPR-SWE-24VAC/DC-1C	KPR-SWE-24VDC-1C	KPR-SWE-48VAC/DC-1C	KPR-SWE-48VDC-1C
Definition			Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module
Order Number			272 004	272 020	272 024	272 040	272 044	272 060	272 064
Casing Width(mm)			14	14	14	14	14	14	14
Connection			Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal
Packaging unit			10	10	10	10	10	10	10
Input	Nominal Voltage(Un)		6VDC	12VAC/DC	12VDC	24VAC/DC	24VDC	48VAC/DC	48VDC
	Operating voltage range		> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN
	Release voltage		< %40 x UN	< %40 x UN	< %40 x UN	< %40 x UN	< %40 x UN	< %30 x UN	< %30 x UN
	Integrated RCZ filter		-	-	-	-	-	-	-
	Power Consumption	AC	-	<1VA	-	<1VA	-	<1VA	-
	DC		<1W	<1W	<1W	<1W	<1W	<1W	
Contact Characteristic	Type		1 C/O (SPDT)	1 C/O (SPDT)	1 C/O (SPDT)	1 C/O (SPDT)	1 C/O (SPDT)	1 C/O (SPDT)	1 C/O (SPDT)
	Material		AgSnO2	AgSnO3	AgSnO4	AgSnO5	AgSnO6	AgSnO7	AgSnO8
	Coil voltage		5VDC	12VDC	12VDC	24VDC	24VDC	48VDC	48VDC
	Coil impedance		147x(1± 10%) Ω	848x(1± 10%) Ω	848x(1± 10%) Ω	3390x(1± 15%) Ω	3390x(1± 25%) Ω	10600x(1± 15%) Ω	10600x(1± 15%) Ω
	Coil consumption		400mW	400mW	400mW	400mW	400mW	400mW	400mW
	Operate time		15 ms Maks.	15 ms Maks.	15 ms Maks.	15 ms Maks.	15 ms Maks.	15 ms Maks.	15 ms Maks.
	Release time		8 ms Maks.	8 ms Maks.	8 ms Maks.	8 ms Maks.	8 ms Maks.	8 ms Maks.	8 ms Maks.
	Max. ratings (AC)		12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA
	Max. ratings (DC)		12A/ 30VDC ; 240W	12A/ 30VDC ; 240W	12A/ 30VDC ; 240W	12A/ 30VDC ; 240W	12A/ 30VDC ; 240W	12A/ 30VDC ; 240W	12A/ 30VDC ; 240W
	Mechanical life time		1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>
	Electrical life time	NO	3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)
		NC	1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)
Isolation resistance			1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)
Dielectric Strength	Between relay coil and contacts		5000VAC 1 min.	5000VAC 1 min.	5000VAC 1 min.	5000VAC 1 min.	5000VAC 1 min.	5000VAC 1 min.	5000VAC 1 min.
	Between contacts		1000VAC 1 min...	1000VAC 1 min..	1000VAC 1 min..	1000VAC 1 min..	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.
Permissible ambient temperature	During operation		-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C
	During storage		-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C
Relative Humidity			5% .. 85% (no ondensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)
Degree of protection			IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
Weight(gr)			56	56	56	56	56	56	56
Max. cable cross-section			2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>
Max. Torque			0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm
Permissible mounting position			any	any	any	any	any	any	any
Accessories and Components	APP/KPR	Type	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR
		Definition	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate
		Order Number	463 247	464 247	465 247	466 247	467 247	468 247	469 247
		Packaging unit	25	25	25	25	25	25	25
	Socket	Type	KPR-SWE-6VDC-1C (Rôle Soket)	KPR-SWE-12VAC/DC-1C (Relay Soket)	KPR-SWE-12VDC-1C	KPR-SWE-24VAC/DC-1C (Relay Soket)	KPR-SWE-24VDC-1C (Relay Soket)	KPR-SWE-48VAC/DC-1C (Relay Soket)	KPR-SWE-48VDC-1C (Relay Soket)
		Definition	Interface relay socket(6V DC)	Interface relay socket(12VAC/DC)	Interface relay socket(12VAC/DC)	Interface relay socket(24VAC/DC)	Interface relay socket(24VDC)	Interface relay socket(48VAC/DC)	Interface relay socket(48VDC)
		Order Number	272 005	272 021	272 025	272 041	272 045	272 061	272 065
		Packaging unit	10	10	10	10	10	10	10
	Relay	Type	1 C/O 5VDC Relay	1 C/O 12VDC Relay	1 C/O 12VDC Relay	1 C/O 24VDC Relay	1 C/O 24VDC Relay	1 C/O 48VDC Relay	1 C/O 48VDC Relay
		Definition	Relay for 272 004 and 272 505	Relay for 272 020 and 272 521	Relay for 272 024 and 272 525	Relay for 272 040 and 272 541	Relay for 272 044 and 272 545	Relay for 272 060 and 272 561	Relay for 272 064 and 272 565
		Order Number	095 064	095 063	095 063	095 062	095 062	095 061	095 061
		Packaging unit	50	50	50	50	50	50	50
	Plug-in bridge-8	Type	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)
		Definition	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole
		Order Number	476 900	476 900	476 900	476 900	476 900	476 900	476 900
		Packaging unit	25	25	25	25	25	25	25
	Plug-in bridge-2	Type	K-KPR-SWE-2-LI	K-KPR-SWE-2-LI	K-KPR-SWE-2-LI	K-KPR-SWE-2-LI	K-KPR-SWE-2-LI	K-KPR-SWE-2-LI	K-KPR-SWE-2-LI
		Definition	Plug-in bridge for 2 hole	Plug-in bridge for 2 hole	Plug-in bridge for 2 hole	Plug-in bridge for 2 hole	Plug-in bridge for 2 hole	Plug-in bridge for 2 hole	Plug-in bridge for 2 hole
Order Number		476 910	476 910	476 910	476 910	476 910	476 910	476 910	
Packaging unit		25	25	25	25	25	25	25	

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## KPR Series PLC Interface Relays








KPR-SWE-60VAC/DC-1C	KPR-SWE-60VDC-1C	KPR-SWE-115VAC/DC-1C	KPR-SWE-115VDC-1C	KPR-SWF-115VAC/DC-1C	KPR-SWE-230VAC/DC-1C	KPR-SWE-230VAC-1C	KPR-SWF-230VAC/VDC-1C	KPR-SWF-230VAC-1C
Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module
272 080	272 084	272 100	272 104	272 106	272 120	272 122	272 126	272 128
14	14	14	14	14	14	14	14	14
Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal
10	10	10	10	10	10	10	10	10
60VAC/DC	60VDC	115VAC/DC	115VDC	115VAC/DC	230VAC/DC	30VAC	230VAC/VDC	230VAC
> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN
< %30 x UN	< %30 x UN	< %30 x UN	< %30 x UN	< %30 x UN	< %40 x UN	< %30 x UN	< %30 x UN	< %30 x UN
-	-	-	-	Availbe	-	-	Availbe	Availbe
<1VA	-	<1VA	-	<1VA	<1VA	<1VA	<1VA	<1VA
<1W	<1W	<1W	<1W	<1W	<1W	<1W	<1W	<1W
1 C/O (SPDT)	1 C/O (SPDT)	1 C/O (SPDT)	1 C/O (SPDT)	1 C/O (SPDT)	1 C/O (SPDT)	1 C/O (SPDT)	1 C/O (SPDT)	1 C/O (SPDT)
AgSn09	AgSn010	AgSn011	AgSn012	AgSn013	AgSn014	AgSn015	AgSn016	AgSn017
48VDC	48VDC	110VDC	110VDC	110VDC	110VDC	110VDC	110VDC	110VDC
10600x(1± 15%) Ω	10600x(1± 15%) Ω	10600x(1± 15%) Ω	10600x(1± 15%) Ω	10600x(1± 15%) Ω	10600x(1± 15%) Ω	10600x(1± 15%) Ω	10600x(1± 15%) Ω	10600x(1± 15%) Ω
400mW	400mW	400mW	400mW	400mW	400mW	400mW	400mW	400mW
15 ms Maks.	15 ms Maks.	15 ms Maks.	15 ms Maks.	15 ms Maks.	15 ms Maks.	15 ms Maks.	15 ms Maks.	15 ms Maks.
8 ms Maks.	8 ms Maks.	8 ms Maks.	8 ms Maks.	8 ms Maks.	8 ms Maks.	8 ms Maks.	8 ms Maks.	8 ms Maks.
12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA	12A/ 400VAC ; 2000VA
12A/ 30VDC ; 240W	12A/ 30VDC ; 240W	12A/ 30VDC ; 240W	12A/ 30VDC ; 240W	12A/ 30VDC ; 240W	12A/ 30VDC ; 240W	12A/ 30VDC ; 240W	12A/ 30VDC ; 240W	12A/ 30VDC ; 240W
1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>	1 x 10 <sup>^7</sup>
3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)	3 x 10 <sup>^4</sup> (85°C)
1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)	1 x 10 <sup>^5</sup> (85°C)
1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)
5000VAC 1 min.	5000VAC 1 min.	5000VAC 1 min.	5000VAC 1 min.	5000VAC 1 min.	5000VAC 1 min.	5000VAC 1 min.	5000VAC 1 min.	5000VAC 1 min.
1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.
-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C
-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C
5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)
IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
56	56	56	56	56	56	56	56	56
2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>
0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm
any	any	any	any	any	any	any	any	any
APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR
Separator plate	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate
470 247	471 247	472 247	473 247	474 247	475 247	476 247	477 247	478 247
25	25	25	25	25	25	25	25	25
KPR-SWE-60VAC/DC-1C (Relay Socket)	KPR-SWE-60VDC-1C (Relay Socket)	KPR-SWE-115VAC/DC-1C (Relay Socket)	KPR-SWE-115VDC-1C (Relay Socket)	KPR-SWF-115VAC/DC-1C (Relay Socket)	KPR-SWE-230VAC/DC-1C (Relay Socket)	KPR-SWE-230VAC-1C (Relay Socket)	KPR-SWF-230VAC/VDC-1C (Relay Socket)	KPR-SWF-230VAC-1C (Relay Socket)
Interface relay socket(60VAC/DC)	Interface relay socket(60VDC)	Interface relay socket(115VAC/DC)	Interface relay socket(115VDC)	"Interface relay socket with RCZ filter(115VAC/DC)"	Interface relay socket(230VAC/DC)	Interface relay socket(230VDC)	Interface relay socket with RCZ filter(230VAC/DC)	Interface relay socket with RCZ filter(230VAC)
272 081	272 085	272 101	272 105	272 107	272 121	272 123	272 127	272 129
10	10	10	10	10	10	10	10	10
1 C/O 48VDC Relay	1 C/O 48VDC Relay	1 C/O 110VDC Relay	1 C/O 110VDC Relay	1 C/O 110VDC Relay	1 C/O 110VDC Relay	1 C/O 110VDC Relay	1 C/O 110VDC Relay	1 C/O 110VDC Relay
Relay for 272 080 and 272 581	Relay for 272 084 and 272 585	Relay for 272 100 and 272 601	Relay for 272 104 and 272 605	Relay for 272 106 and 272 607	Relay for 272 120 and 272 621	Relay for 272 122 and 272 623	Relay for 272 126 and 272 627	Relay for 272 128 and 272 629
095 061	095 061	095 060	095 060	095 060	095 060	095 060	095 060	095 060
50	50	50	50	50	50	50	50	50
TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)
Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole
476 900	476 900	476 900	476 900	476 900	476 900	476 900	476 900	476 900
25	25	25	25	25	25	25	25	25
K-KPR-SWE-2-LI	K-KPR-SWE-2-LI	K-KPR-SWE-2-LI	K-KPR-SWE-2-LI	K-KPR-SWE-2-LI	K-KPR-SWE-2-LI	K-KPR-SWE-2-LI	K-KPR-SWE-2-LI	K-KPR-SWE-2-LI
Plug-in bridge for 2 hole	Plug-in bridge for 2 hole	Plug-in bridge for 2 hole	Plug-in bridge for 2 hole	Plug-in bridge for 2 hole	Plug-in bridge for 2 hole	Plug-in bridge for 2 hole	Plug-in bridge for 2 hole	Plug-in bridge for 2 hole
476 910	476 910	476 910	476 910	476 910	476 910	476 910	476 910	476 910
25	25	25	25	25	25	25	25	25

# Electronic Products

## KPR Series PLC Interface Relays



Pre-assembled module (relay + socket)		Type	KPR-SWE-6VDC-2C	KPR-SWE-12VAC/ DC-2C	KPR-SWE-12VDC- 2C	KPR-SWE-24VAC/ DC-2C	KPR-SWE-24VDC- 2C	KPR-SWE-48VAC/ DC-2C	KPR-SWE-48VDC- 2C	
		Definition	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module
		Order Number	272 504	272 520	272 524	272 540	272 544	272 560	272 564	
<b>Casing Width(mm)</b>			14	14	14	14	14	14	14	
<b>Connection</b>			Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	
<b>Packaging unit</b>			10	10	10	10	10	10	10	
<b>Input</b>	Nominal Voltage(Un)		6VDC	12VAC/DC	12VDC	24VAC/DC	24VDC	48VAC/DC	48VDC	
	Operating voltage range		> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	
	Release voltage		< %40 x UN	< %40 x UN	< %40 x UN	< %40 x UN	< %40 x UN	< %30 x UN	< %30 x UN	
	Integrated RCZ filter		-	-	-	-	-	-	-	
	Power Consumption	AC	-	<1VA	-	<1VA	-	<1VA	-	
		DC	<1W	<1W	<1W	<1W	<1W	<1W	<1W	
<b>Contact Characteristic</b>	Type		2 C/O (SPDT)	2 C/O (SPDT)	2 C/O (SPDT)	2 C/O (SPDT)	2 C/O (SPDT)	2 C/O (SPDT)	2 C/O (SPDT)	
	Material		AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2	
	Coil voltage		5VDC	12VDC	12VDC	24VDC	24VDC	48VDC	48VDC	
	Coil impedance		62 x (1 ±10%) Ω	360 x (1 ±10%)	360 x (1 ±10%)	1440 x (1 ±10%)	1440 x (1 ±10%)	5760 x (1 ±10%)	5760 x (1 ±10%)	
	Coil consumption		400mW	400mW	400mW	400mW	400mW	400mW	400mW	
	Operate time		15ms Max.	15ms Max.	15ms Max.	15ms Max.	15ms Max.	15ms Max.	15ms Max.	
	Release time		8ms Max.	8ms Max.	8ms Max.	8ms Max.	8ms Max.	8ms Max.	8ms Max.	
	Max. ratings (AC)		8A / 250VAC; 2000VA	8A / 250VAC; 2000VA	8A / 250VAC; 2000VA	8A / 250VAC; 2000VA	8A / 250VAC; 2000VA	8A / 250VAC; 2000VA	8A / 250VAC; 2000VA	
	Max. ratings (DC)		8A/30VDC; 240W	8A/30VDC; 240W	8A/30VDC; 240W	8A/30VDC; 240W	8A/30VDC; 240W	8A/30VDC; 240W	8A/30VDC; 240W	
	Mechanical life time		10 <sup>^7</sup>	10 <sup>^7</sup>	10 <sup>^7</sup>	10 <sup>^7</sup>	10 <sup>^7</sup>	10 <sup>^7</sup>	10 <sup>^7</sup>	
	Electrical life time	NO	3x10 <sup>^4</sup>	3x10 <sup>^4</sup>	3x10 <sup>^4</sup>	3x10 <sup>^4</sup>	3x10 <sup>^4</sup>	3x10 <sup>^4</sup>	3x10 <sup>^4</sup>	
		NC	1x10 <sup>^4</sup>	1x10 <sup>^4</sup>	1x10 <sup>^4</sup>	1x10 <sup>^4</sup>	1x10 <sup>^4</sup>	1x10 <sup>^4</sup>	1x10 <sup>^4</sup>	
<b>Isolation resistance</b>			1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	
<b>Dielectric Strength</b>	Between relay coil and contacts		4000VAC 1 min.	4000VAC 1 min.	4000VAC 1 min.	4000VAC 1 min.	4000VAC 1 min.	4000VAC 1 min.	4000VAC 1 min.	
	Between contacts		1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	
<b>Permissible ambient temperature</b>	During operation		-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	
	During storage		-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	
<b>Relative Humidity</b>			5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	
<b>Degree of protection</b>			IP20	IP20	IP20	IP20	IP20	IP20	IP20	
<b>Weight(gr)</b>			56	56	56	56	56	56	56	
<b>Max. cable cross-section</b>			2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	
<b>Max. Torque</b>			0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	
<b>Permissible mounting position</b>			any	any	any	any	any	any	any	
<b>Accessories and Components</b>		Type	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR	
		Definition	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate	
		Order Number	463 247	463 247	463 247	463 247	463 247	463 247	463 247	
		Packaging unit	25	25	25	25	25	25	25	
		Type	KPR-SWE-6VDC-2C (RELAY SOCKET)	KPR-SWE-12VAC/DC-2C (RELAY SOCKET)	KPR-SWE-12VDC-2C (RELAY SOCKET)	KPR-SWE-24VAC/DC-2C (RELAY SOCKET)	KPR-SWE-24VDC-2C (RELAY SOCKET)	KPR-SWE-48VAC/DC-2C (RELAY SOCKET)	KPR-SWE-48VDC-2C (RELAY SOCKET)	
		Definition	Interface relay socket (6VDC)	Interface relay socket (12VAC/DC)	Interface relay socket (12VDC)	Interface relay socket (24VAC/DC)	Interface relay socket (24VDC)	Interface relay socket (48VAC/DC)	Interface relay socket (48VDC)	
		Order Number	272 505	272 521	272 525	272 541	272 545	272 561	272 565	
		Packaging unit	10	10	10	10	10	10	10	
		Type	2 C/O 5VDC Relay	2 C/O 12VDC Relay	2 C/O 12VDC Relay	2 C/O 24VDC Relay	2 C/O 24VDC Relay	2 C/O 48VDC Relay	2 C/O 48VDC Relay	
		Definition	Relay for 272 504 and 272 505	Relay for 272 520 and 272 521	Relay for 272 524 and 272 525	Relay for 272 540 and 272 541	Relay for 272 544 and 272 545	Relay for 272 560 and 272 561	Relay for 272 564 and 272 565	
		Order Number	095 054	095 053	095 053	095 052	095 052	095 051	095 051	
		Packaging unit	50	50	50	50	50	50	50	
		Type	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	
		Definition	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	
		Order Number	476 900	476 900	476 900	476 900	476 900	476 900	476 900	
		Packaging unit	25	25	25	25	25	25	25	
		Type	DG 10/6 T	DG 10/6 T	DG 10/6 T	DG 10/6 T	DG 10/6 T	DG 10/6 T	DG 10/6 T	
		Definition	Terminal Labels for interface relays	Terminal Labels for interface relays	Terminal Labels for interface relays	Terminal Labels for interface relays	Terminal Labels for interface relays	Terminal Labels for interface relays	Terminal Labels for interface relays	
		Order Number	505 390	505 390	505 390	505 390	505 390	505 390	505 390	
		Packaging unit	360	360	360	360	360	360	360	

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## KPR Series PLC Interface Relays



KPR-SWE-60VAC/ DC-2C	KPR-SWE-60VDC-2C	KPR-SWE-115VAC/ DC-2C	KPR-SWE-115VDC- 2C	KPR-SWF-115VAC/ DC-2C	KPR-SWE-230VAC/ DC-2C	KPR-SWE-230VAC- 2C	KPR-SWF-230VAC/ VDC-2C	KPR-SWF-230VAC- 2C
Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module	Interface relay module
272 580	272 584	272 600	272 604	272 606	272 620	272 622	272 626	272 628
14	14	14	14	14	14	14	14	14
Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal
10	10	10	10	10	10	10	10	10
60VAC/DC	60VDC	115VAC/DC	115VDC	115VAC/DC	230VAC/DC	230VAC	230VAC/DC	230VAC
> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN	> %80 x UN
< %30 x UN	< %30 x UN	< %30 x UN	< %30 x UN	< %30 x UN	< %30 x UN	< %30 x UN	< %30 x UN	< %30 x UN
-	-	-	-	Available	-	-	Available	Available
<1VA	-	<1VA	-	<1VA	<2VA	<2VA	<2VA	<2VA
<1W	<1W	<1W	<1W	<1W	<1W	-	<2W	-
2 C/O (SPDT)	2 C/O (SPDT)	2 C/O (SPDT)	2 C/O (SPDT)	2 C/O (SPDT)	2 C/O (SPDT)	2 C/O (SPDT)	2 C/O (SPDT)	2 C/O (SPDT)
AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2
60VDC	60VDC	115VDC	115VDC	115VDC	115VDC	115VDC	115VDC	115VDC
5760 x (1 ±10%)	5760 x (1 ±10%)	25200 x (1 ±10%)	25200 x (1 ±10%)	25200 x (1 ±10%)	25200 x (1 ±10%)	25200 x (1 ±10%)	25200 x (1 ±10%)	25200 x (1 ±10%)
400mW	400mW	400mW	400mW	400mW	400mW	400mW	400mW	400mW
15ms Max.	15ms Max.	15ms Max.	15ms Max.	15ms Max.	15ms Max.	15ms Max.	15ms Max.	15ms Max.
8ms Max.	8ms Max.	8ms Max.	8ms Max.	8ms Max.	8ms Max.	8ms Max.	8ms Max.	8ms Max.
8A / 250VAC; 2000VA	8A / 250VAC; 2000VA	8A / 250VAC; 2000VA	8A/250VAC; 2000VA	8A/250VAC; 2000VA	8A / 250VAC; 2000VA	8A / 250VAC; 2000VA	8A / 250VAC; 2000VA	8A / 250VAC; 2000VA
8A/30VDC; 240W	8A/30VDC; 240W	8A/30VDC; 240W	8A/30VDC; 240W	8A/30VDC; 240W	8A/30VDC; 240W	8A/30VDC; 240W	8A/30VDC; 240W	8A/30VDC; 240W
10 <sup>^</sup> 7	10 <sup>^</sup> 7	10 <sup>^</sup> 7	10 <sup>^</sup> 7	10 <sup>^</sup> 7	10 <sup>^</sup> 7	10 <sup>^</sup> 7	10 <sup>^</sup> 7	10 <sup>^</sup> 7
3x10 <sup>^</sup> 4	3x10 <sup>^</sup> 4	3x10 <sup>^</sup> 4	3x10 <sup>^</sup> 4	3x10 <sup>^</sup> 4	3x10 <sup>^</sup> 4	3x10 <sup>^</sup> 4	3x10 <sup>^</sup> 4	3x10 <sup>^</sup> 4
1x10 <sup>^</sup> 4	1x10 <sup>^</sup> 4	1x10 <sup>^</sup> 4	1x10 <sup>^</sup> 4	1x10 <sup>^</sup> 4	1x10 <sup>^</sup> 4	1x10 <sup>^</sup> 4	1x10 <sup>^</sup> 4	1x10 <sup>^</sup> 4
1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)
4000VAC 1 min.	4000VAC 1 min.	4000VAC 1 min.	4000VAC 1 min.	4000VAC 1 min.	4000VAC 1 min.	4000VAC 1 min.	4000VAC 1 min.	4000VAC 1 min.
1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.	1000VAC 1 min.
-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C
-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C
5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)
IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
56	56	56	56	56	56	56	56	56
2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>
0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm
any	any	any	any	any	any	any	any	any
APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR	APP/KPR
Separator plate	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate	Separator plate
463 247	463 247	463 247	463 247	463 247	463 247	463 247	463 247	463 247
25	25	25	25	25	25	25	25	25
KPR-SWE-60VAC/DC- 2C (RELAY SOCKET)	KPR-SWE-60VDC-2C (RELAY SOCKET)	KPR-SWE-115VAC/ DC-2C (RELAY SOCKET)	KPR-SWE-115VDC- 2C (RELAY SOCKET)	KPR-SWF-115VDC- 2C (RELAY SOCKET)	KPR-SWE-230VAC/ DC-2C (RELAY SOCKET)	KPR-SWE-230VAC- 2C (RELAY SOCKET)	KPR-SWF-230VAC/ DC-2C (RELAY SOCKET)	KPR-SWF-230VAC- 2C (RELAY SOCKET)
Interface relay socket (60VAC/DC)	Interface relay socket (60VDC)	Interface relay socket (115VAC/DC)	Interface relay socket (115VDC)	Interface relay socket with RCZ filter (115VAC/DC)	Interface relay socket (230VAC/DC)	Interface relay socket (230VAC)	Interface relay socket with RCZ filter (230VAC/DC)	Interface relay socket with RCZ filter (230VAC)
272 581	272 585	272 601	272 605	272 607	272 621	272 623	272 627	272 629
10	10	10	10	10	10	10	10	10
2 C/O 48VDC Relay	2 C/O 48VDC Relay	2 C/O 115VDC Relay	2 C/O 115VDC Relay	2 C/O 115VDC Relay	2 C/O 115VDC Relay	2 C/O 115VDC Relay	2 C/O 115VDC Relay	2 C/O 115VDC Relay
Relay for 272 580 and 272 581	Relay for 272 584 and 272 585	Relay for 272 600 and 272 601	Relay for 272 604 and 272 605	Relay for 272 606 and 272 607	Relay for 272 620 and 272 621	Relay for 272 622 and 272 623	Relay for 272 626 and 272 627	Relay for 272 628 and 272 629
095 051	095 051	095 050	095 050	095 050	095 050	095 050	095 050	095 050
50	50	50	50	50	50	50	50	50
TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)	TK-KPR-S (KPR-SCE BRIDGE/8)
Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole	Plug-in bridge for 8 hole
476 900	476 900	476 900	476 900	476 900	476 900	476 900	476 900	476 900
25	25	25	25	25	25	25	25	25
DG 10/6 T	DG 10/6 T	DG 10/6 T	DG 10/6 T	DG 10/6 T	DG 10/6 T	DG 10/6 T	DG 10/6 T	DG 10/6 T
Terminal Labels for interface relays	Terminal Labels for interface relays	Terminal Labels for interface relays	Terminal Labels for interface relays	Terminal Labels for interface relays	Terminal Labels for interface relays	Terminal Labels for interface relays	Terminal Labels for interface relays	Terminal Labels for interface relays
505 390	505 390	505 390	505 390	505 390	505 390	505 390	505 390	505 390
360	360	360	360	360	360	360	360	360

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## KPR Series PLC Interface Relays



		Type	KPR-CIE-6VDC-1C	KPR-CIE-12VAC/DC-1C	KPR-CIE-12VDC-1C	KPR-CIE-24VAC/DC-1C	KPR-CIE-24VDC-1C	KPR-CIE-48VAC/DC-1C
<b>Module</b>	Definiton		Integrated Interface relay module	Integrated Interface relay module	Integrated Interface relay module	Integrated Interface relay module	Integrated Interface relay module	Integrated Interface relay module
	Order Number		271504	271510	271514	271520	271524	271530
<b>Casing Width(mm)</b>			6.2	6.2	6.2	6.2	6.2	6.2
<b>Connection</b>			Cage Clamp	Cage Clamp	Cage Clamp	Cage Clamp	Cage Clamp	Cage Clamp
<b>Packaging unit</b>			10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.
<b>Input</b>	Nominal Voltage(Un)		6VDC	12VAC/DC	12VDC	24VAC/DC	24VDC	48VAC/DC
	Operating voltage range		0,8 x Un	0,8 x Un	0,8 x Un	0,8 x Un	0,8 x Un	0,8 x Un
	Release voltage		0,2 x Un	0,2 x Un	0,2 x Un	0,2 x Un	0,2 x Un	0,2 x Un
	Power Consumption	AC DC		<0.35VA <0.35W	<0.35VA <0.35W	<0.35VA <0.35W	<0.35VA <0.35W	<0.35VA <0.35W
<b>Contact Characteristic</b>	Type		1 C/O	1 C/O	1 C/O	1 C/O	1 C/O	1 C/O
	Material		AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2
	Coil voltage		5VDC	12VDC	12VDC	24VDC	24VDC	24VDC
	Coil impedance		147x(1± 10%) Ω	147x(1± 10%) Ω	147x(1± 10%) Ω	147x(1± 10%) Ω	147x(1± 10%) Ω	147x(1± 10%) Ω
	Coil consumption		170mW	170mW	170mW	170mW	170mW	170mW
	Operate time		10 ms max.	10 ms max.	10 ms max.	10 ms max.	10 ms max.	10 ms max.
	Release time		5 ms max.	5 ms max.	5 ms max.	5 ms max.	5 ms max.	5 ms max.
	Max. ratings (AC)		6A/250VAC; 1500VA	6A/250VAC; 1500VA	6A/250VAC; 1500VA	6A/250VAC; 1500VA	6A/250VAC; 1500VA	6A/250VAC; 1500VA
	Max. ratings (DC)		6A/30VDC; 180W	6A/30VDC; 180W	6A/30VDC; 180W	6A/30VDC; 180W	6A/30VDC; 180W	6A/30VDC; 180W
	Mechanical life time		10 <sup>^</sup> 7 operations	10 <sup>^</sup> 7 operations	10 <sup>^</sup> 7 operations	10 <sup>^</sup> 7 operations	10 <sup>^</sup> 7 operations	10 <sup>^</sup> 7 operations
Electrical life time operations (UL approval, 85°C )	NO NC		3 × 10 <sup>^</sup> 4 operations 1 × 10 <sup>^</sup> 4 operations	3 × 10 <sup>^</sup> 4 operations 1 × 10 <sup>^</sup> 4 operations	3 × 10 <sup>^</sup> 4 operations 1 × 10 <sup>^</sup> 4 operations	3 × 10 <sup>^</sup> 4 operations 1 × 10 <sup>^</sup> 4 operations	3 × 10 <sup>^</sup> 4 operations 1 × 10 <sup>^</sup> 4 operations	
<b>Isolation resistance</b>			1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)
<b>Dielectric Strength</b>	Between relay coil and contacts		4000VAC 1 min	4000VAC 1 min	4000VAC 1 min	4000VAC 1 min	4000VAC 1 min	4000VAC 1 min
	Between contacts		1000VAC 1 min	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min
<b>Permissible ambient temperature</b>	During operation		-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
	During storage		-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
<b>Relative Humidity</b>			5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)
<b>Degree of protection</b>			IP20	IP20	IP20	IP20	IP20	IP20
<b>Weight(gr)</b>			26gr	26gr	26gr	26gr	26gr	26gr
<b>Max. cable cross-section</b>			2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>
<b>Max. torque</b>			0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm
<b>Permissible mounting position</b>			any	any	any	any	any	any
<b>Integrated RCZ Filter</b>			x	x	x	x	x	x

## Accessories and Components



Definition	End Plate	Plug in bridge for 2 hole	Plug in bridge for 3 hole	Plug in bridge for 4 hole
Order Number	450389	470112	470113	470114
Package Unit	10 pcs.	25 pcs.	20 pcs.	15 pcs.

# Electronic Products

## KPR Series PLC Interface Relays



KPR-CIE-48VDC-1C	KPR-CIE-60VAC/DC-1C	KPR-CIE-60VDC-1C	KPR-CIE-115VAC/DC-1C	KPR-CIE-115VDC-1C	KPR-CIF-115VAC/DC-1C	KPR-CIE-230VAC/DC-1C	KPR-CIE-230VAC/DC-1C
Integrated Interface relay module	Integrated Interface relay module	Integrated Interface relay module	Integrated Interface relay module	Integrated Interface relay module	Integrated Interface relay module	Integrated Interface relay module	Integrated Interface relay module
271534	271540	271544	271550	271554	271556	271560	271562
6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Cage Clamp	Cage Clamp	Cage Clamp	Cage Clamp	Cage Clamp	Cage Clamp	Cage Clamp	Cage Clamp
10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.	10 pcs.
48VDC	60VAC/DC	60VDC	115VAC/DC	115VDC	115VAC/DC	230VAC/DC	230VAC/DC
0,8 x Un	0,8 x Un	0,8 x Un	0,8 x Un	0,8 x Un	0,8 x Un	0,8 x Un	0,8 x Un
0,2 x Un	0,2 x Un	0,2 x Un	0,2 x Un	0,2 x Un	0,2 x Un	0,2 x Un	0,2 x Un
<0.35VA	<0.35VA	<0.35VA	<0.35VA	<0.35VA	<0.35VA	<0.35VA	<0.35VA
<0.35W	<0.35W	<0.35W	<0.35W	<0.35W	<0.35W	<0.35W	<0.35W
1 C/O	1 C/O	1 C/O	1 C/O	1 C/O	1 C/O	1 C/O	1 C/O
AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2
24VDC	60VDC	60VDC	60VDC	60VDC	60VDC	60VDC	60VDC
147x(1± 10%) Ω	147x(1± 10%) Ω	147x(1± 10%) Ω	147x(1± 10%) Ω	147x(1± 10%) Ω	147x(1± 10%) Ω	147x(1± 10%) Ω	147x(1± 10%) Ω
170mW	170mW	170mW	170mW	170mW	170mW	170mW	170mW
10 ms max.	10 ms max.	10 ms max.	10 ms max.	10 ms max.	10 ms max.	10 ms max.	10 ms max.
5 ms max.	5 ms max.	5 ms max.	5 ms max.	5 ms max.	5 ms max.	5 ms max.	5 ms max.
6A/250VAC; 1500VA	6A/250VAC; 1500VA	6A/250VAC; 1500VA	6A/250VAC; 1500VA	6A/250VAC; 1500VA	6A/250VAC; 1500VA	6A/250VAC; 1500VA	6A/250VAC; 1500VA
6A/30VDC; 180W	6A/30VDC; 180W	6A/30VDC; 180W	6A/30VDC; 180W	6A/30VDC; 180W	6A/30VDC; 180W	6A/30VDC; 180W	6A/30VDC; 180W
10 <sup>^</sup> 7 operations	10 <sup>^</sup> 7 operations	10 <sup>^</sup> 7 operations	10 <sup>^</sup> 7 operations	10 <sup>^</sup> 7 operations	10 <sup>^</sup> 7 operations	10 <sup>^</sup> 7 operations	10 <sup>^</sup> 7 operations
3 × 10 <sup>^</sup> 4 operations	3 × 10 <sup>^</sup> 4 operations	3 × 10 <sup>^</sup> 4 operations	3 × 10 <sup>^</sup> 4 operations	3 × 10 <sup>^</sup> 4 operations	3 × 10 <sup>^</sup> 4 operations	3 × 10 <sup>^</sup> 4 operations	3 × 10 <sup>^</sup> 4 operations
1 × 10 <sup>^</sup> 4 operations	1 × 10 <sup>^</sup> 4 operations	1 × 10 <sup>^</sup> 4 operations	1 × 10 <sup>^</sup> 4 operations	1 × 10 <sup>^</sup> 4 operations	1 × 10 <sup>^</sup> 4 operations	1 × 10 <sup>^</sup> 4 operations	1 × 10 <sup>^</sup> 4 operations
1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)	1000MΩ (500VDC)
4000VAC 1 min	4000VAC 1 min	4000VAC 1 min	4000VAC 1 min	4000VAC 1 min	4000VAC 1 min	4000VAC 1 min	4000VAC 1 min
1000VAC 1 min	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min	1000VAC 1 min
-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)	5% .. 85% (no condensation)
IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
26gr	26gr	26gr	26gr	26gr	26gr	26gr	26gr
2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>
0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm	0.4Nm
any	any	any	any	any	any	any	any
x	x	x	x	x	Available	x	Available

## Accessories and Components



Plug in bridge for 5 hole	Plug in bridge for 10 hole	DG 6/5 - Label	DB 5 – Label	11.2 Strip label
470115	470119	505330	505850	1020100
10 pcs.	5 pcs.	440 pcs.	500 pcs.	1 pc.

**NOTE:** This product is only compatible with below items: -112710N -112720N -112730N