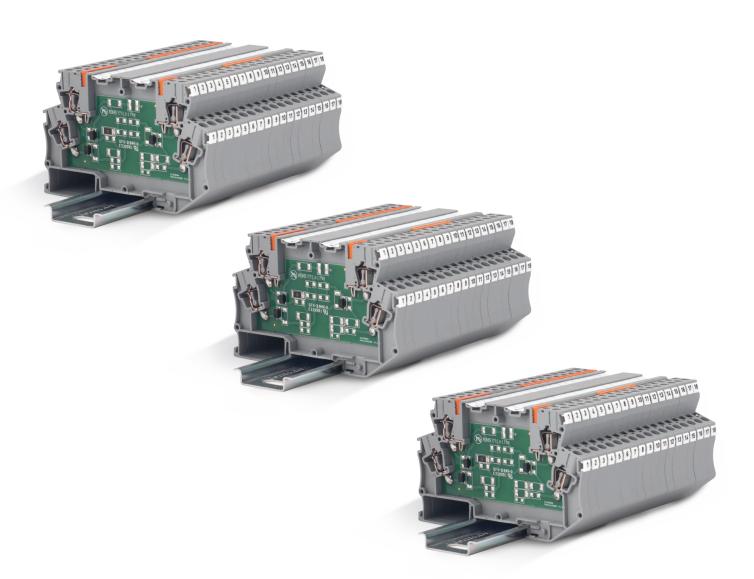
Klemsan®



OPK-EKI Optocoupler Modules

Defining OPK-EKI modules in simple terms

OPK-EKI is an optocoupler module that uses a short optical transmission path to transfer an electrical signal between circuits or elements of a circuit, while keeping them electrically isolated from each other. They can be used to switch loads like mechanical relays but they are much more than simply switching...

Which actions are executed?





Isolation

High & Low

Side Driving

OPK-EKI module is an electrically operated switch that is used where it is necessarry to control a circuit by a low-power signal.

The main purpose of an optocoupler is to prevent rapidly changing voltages or high voltages on one side of a circuit from distorting transmissions or damaging components on the other side of the circuit. It uses light waves to provide complete electrical isolation between control and controlled circuits while transferring an electrical signal.

Zero volt switching circuit prevents inrush current so loads can be switched more stable.

High side and low side switching option allows driving a load in two different ways.

Which market are they used frequently?

Benefits and Advantages

- PLC automation systems
- Industrial Machines
- Control and safety systems
- Energy management systems
- Electric power plants
- Medium voltage modular cabinets

- A widely range of voltage input from 5V to 220V
- Providing high switching frequency due to short switch-on and switch-off times
- Long service life
- Quite working
- No contact arching
- Resistant to vibration and shock
- Preventing inrush current
- High side and low side switching options
- AC and DC load switching options
- Cage clamp connection
- Saving space with 6.2mm design
- Saving wiring time with plug-in bridges
- LED status indicator in order to see actual movement of the contacts
- Labeling with terminal block marking materials
- Self-Extinguishing plastic housing
- <500μsn response time</p>
- Up to 5 DC or up to 0,5A AC current switching
- 24-260V AC or 5-48V, 3-30V DC voltage switching

Industrial Applications



Optocoupler modules are used in industrial environments where high voltages, magnetic fields and noise are commonly present, reliability is critical to avoid downtime and ensure data accuracy. In this environment circuit designers use optocouplers to insulate high voltages and isolate unwanted signals. Klemsan presents OPK-EKI modules that are designed to meet the stringent requirements of industrial applications.

Under Vibration



Klemsan OPK-EKI modules compensate the bad effects of vibration and shock and continue to switch current and voltage thanks to their cage clamp connection and having no moving parts like electromechanical relays. They ensure continuous and uninterrupted operation for any system.

Solid State Relay Applications

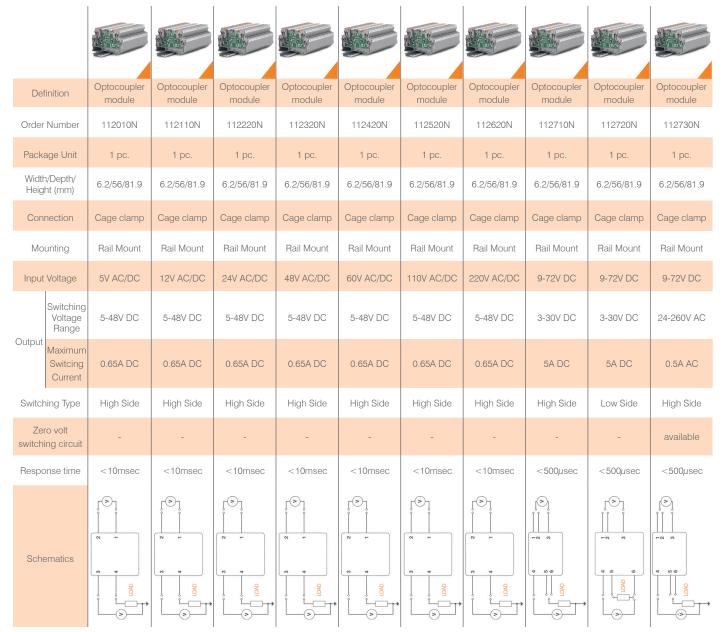


OPK-EKI modules can be used instead of solid state relays due to high switching frequency, short switch-on and switch-off times, no contact bouncing, noisless switching, long operation life, etc.

Narrow Cabinets



Only 6.2 mm wide, thus saving considerable space in your enclosures. OPK-EKI modules are particularly suitable for the modification and extension of equipment and machinery, where it helps to make optimum use of the limited space available in switchgear cabinets.



Accessories and Components

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Definition	End Plate	Plug in bridge for 2 hole	Plug in bridge for 3 hole	Plug in bridge for 4 hole	Plug in bridge for 5 hole	Plug in bridge for 10 hole	DG 6/5 - Label	DB 5 – Label	11.2 Strip label	
Order Number	450389	470112	470113	470114	470115	470119	505330	505850		NOTE: This product is only compatible with below items: -112710N -112720N -112730N
Package Unit	10 pcs.	25 pcs.	20 pcs.	15 pcs.	10 pcs.	5 pcs.	440 pcs.	500 pcs.	1 pc.	

