

Single channel relay output terminal, 230 V_{AC}, 16 A, with manual operation

The KL2641 output terminal has a relay which has a single contact. The relay contact can be used universally for switching devices requiring mains power. The operating mode can be set via the Mode switch (AUTO/HAND). The operating mode is displayed via an LED and transferred to the process image as a status bit. The red switch (1/0) for the manual operation indicates the switch status of the relay. The manual operation can also be used without 24 V_{DC} (from power contacts) for switching the actuator.

Connection



Danger

Bring the bus terminal system into a safe, powered down state before starting installation, disassembly or wiring of the Bus Terminals!

Terminal point	No.	Connector for
DO	1	load (internally connected with terminal point 2)
DO	2	load (internally connected with terminal point 1)
L	3	mains voltage 230 V _{AC} (internally connected with terminal point 4)
L	4	mains voltage 230 V _{AC} (internally connected with terminal point 3)

Load Types

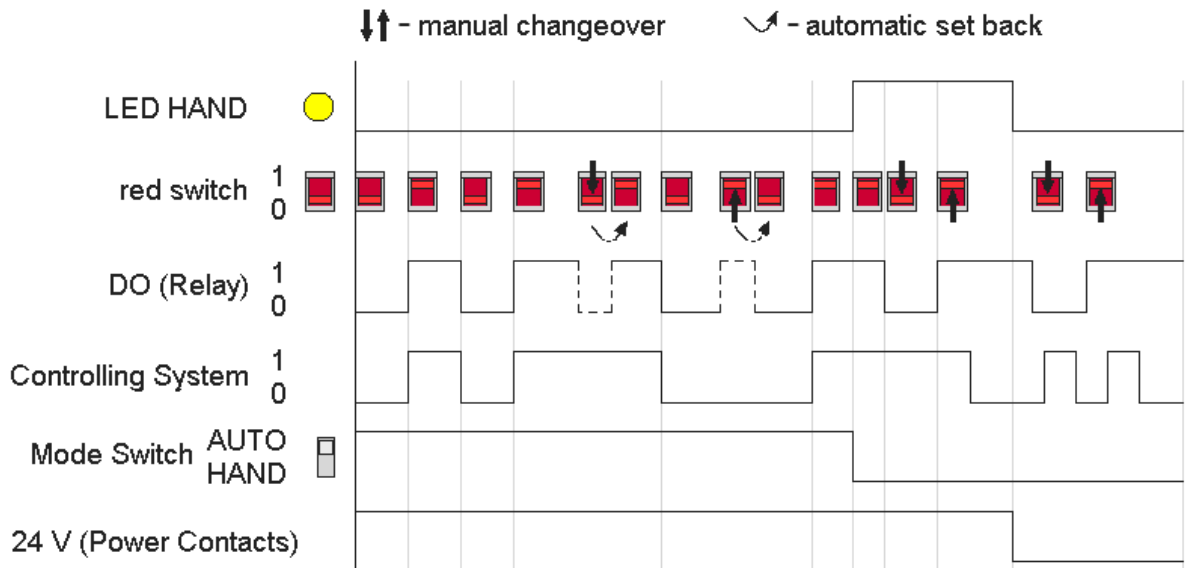
Load		100000 operating cycles with	30000 operating cycles with
Incandescent lamps		1.25 kW	2,5 kW
fluorescent lamp	uncorrected	1.2 kW	2,5 kW
	parallel corrected	650 W / 70 µF	1.3 kW / 140 µF
fluorescent lamp in twin-lamp-circuit		2 x 1.2 kW	2 x 2,5 kW
Halogen lamp (230V _{AC})		1.2 kW	2.5 kW
Low-volt halogen lamp with transformer		500 VA	500 VA
mercury / sodium vapor lamp	uncorrected	1 kW	2 kW
	parallel corrected	1 kW / 70 µF	2 kW / 140 µF
dulux lamp	uncorrected	800 W	1.6 kW
	parallel corrected	560 W / 70µF	1.1 kW / 140 µF

Operation modes

HAND: The coil control is interrupted. Actuation is done only by the red manual switch.

AUTO: Actuation of the relay by the controlling system. Manual changeover via the red manual switch is set back automatically by the controlling system within less than 500 ms.

Example



Technical data	KL2641
Number of outputs	1 make contact, potential-free
Switching voltage	max. 440 V _{AC}
Switching current	max. 16 A _{AC}
Switching capacity	5 kVA
Current consumption from K-Bus	typically 5 mA
Current consumption from Power Contacts (24 V)	typically 65 mA
Operating cycles	10 ⁶
Contact material	AgSnO ₂
Bit width in the process image	2 input bits (Status Hand, -) 2 output bits (DO, -)
Configuration	no address or configuration setting necessary
Weight	app. 110 g
Dimensions (w x h x d)	27mm x 100mm x 68mm (aligned width 24mm)
permissible ambient temperature range	-0°C ... +55°C (during operation) -25°C ... +70°C (during storage)
permissible relative humidity	5% ... 95%, no condensation
Mounting position	variable
Vibration/shock resistance	conforms to EN60068-2-6 / EN60068-2-27, EN60068-2-29
EMC resistance burst/ESD	conforms to EN61000-6-2 / EN61000-6-4
Protection class / Approval	IP20 / CE

The relay complies with the international standards according to IEC and DIN EN 61810 part 1 / VDE 0435 part 201 as well as with the requirements to short time over-current and short-circuit according to IEC and EN 61036 / 61037.