

# Digital Coupling Module KBD-2/L

2 independent circuits with 12 A

feedbacks can be connected in series.

For activation of lights



Switching on lights can lead to very high inrush current peaks.

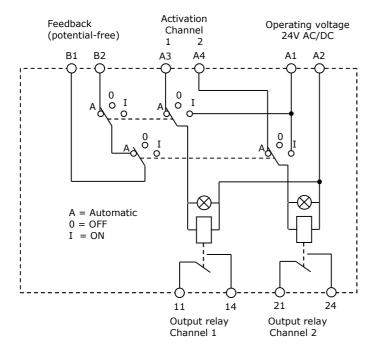
A closing contact can bounce 3 to 7 times until it has closed completely. This creates a light arc which can melt the contact surface. Micro-welding can take place when the contact cools down (contact sticks).

To prevent sticking of the contact, relays with a preceding tungsten contact are used.

Inrush current peaks for filament lamps of 165 A / max. 20 ms, or for fluorescent lamps of 800 A / max. 200  $\mu$ s can be switched with these.

An 8-pin connecting bridge is available for wiring the A1 - A2 feed faster

#### **Block diagram**



# current peaks of 165 A / 20 ms or 800 A / 200 μs. AUTO-OFF-ON with feedback Each of the two switching circuits can switch separately to automatic or manual mode. In automatic mode the contact with feedback is closed; therefore a logic 1 results on the controller. Multiple

Each separately activatable switching circuit is able

to switch a capacity of 12 A / 250 V AC and inrush

#### DIN 45 mm housing

The standardised housing enables the coupling module to be installed by means of a 45 mm cutout behind the covering; it only requires a width of 17.5 mm (8.75 mm per channel) for this. The switching status indicators (LED) are clearly visible and the AUTO-OFF-ON switches accessible, with the connections located in a protected position behind the cover panel.



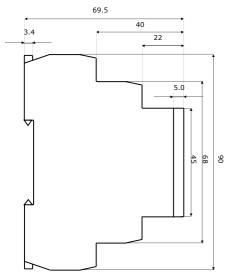


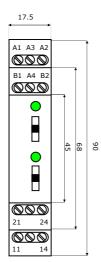


# **Technical data**

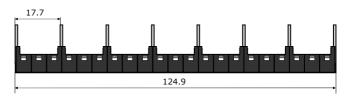
Input side	
Rated voltage Un A1 - A2	24 V AC/DC
Power consumption	480 mW
Tolerance	-15%; +10%
Input side	
Switching voltage	250 V AC
Switching current / contact material	12 A / AC1 / preceding tungsten contact and AgSnO <sub>2</sub>
Max. peak current	Filament Lamps: 165 A / <20 ms, fluorescent lamps: 800 A / <200 μs
Switching capacity	3000 VA / AC1
Switch for feedback	
Max. switching capacity	100 mA / 30 V
General data	
Mechanical life	5 x 10 <sup>6</sup>
Ambient temperature	-20°C +55°C
Storage temperature	-30°C +70°C
Test voltage coil / contact	2.5 kV
Mounting position	any
Fixing DIN rail	EN 50022-35
Protection for front	IP 40
Voltage limitation class	III
Degree of contamination	2
Connection cross section	2.5 mm <sup>2</sup>
Weight	82 g
Standards	EN 61810-1, EN 618-10-1 + 2

## Dimensional drawing





## Connecting bridge



Device		Bestell-Nr.
Coupling module	2 working contacts, 2 activations, AUTO-OFF-ON with feedback	KBD-2/L
Connecting bridge	8-pin	AK-17-8

Subject to changes! 11.2013

