# Inductive coupler M12-2

#### **Contact free transmission of energy and signals**

**Axial coupler** 



#### **Application/customer benefits**

- Contact free transmission of energy and signals between stationary and moved components
- Application examples: Supply of mobile sensors, supply and monitoring of remote systems, monitoring of door contacting
- Dynamic Pairing
- Free from wear and maintenance
- Operating display

### **Technical features**

- Mounting M12 x 1
- Supply voltage 24V ± 10%
- Transmission distance 0 2.5 mm
- Transmission of energy: 24V / 1W (35mA)
- Transmission of signals: 2 digital signals
- Inverse-polarity protection (base), short-circuit proof (remote)
- Id. No. Base: 0E010970 Id. No. Remote: 0E010971
- Interface: Base cable 300 mm with male connector M12 (5-pin), remote cable 300 mm with female connector M12 (5-pin)

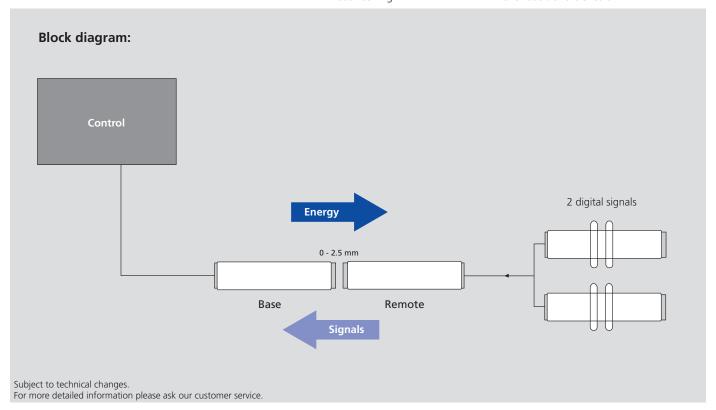
LED interface (base)

color: green

slow flashing: \_\_\_\_\_power on / no remote detected

static: in position

fast flashing: overload / short circuit

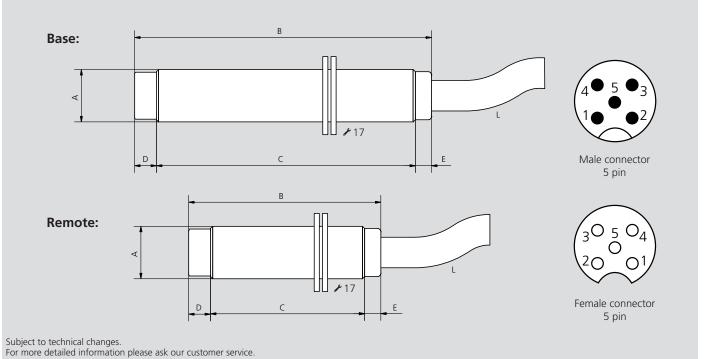


## Contact free transmission of energy and signals

## **Inductive coupler** M12-2

■ Stationary unit - Base ■ Mobile unit - Remote

Axial coupler



Inductive coupler M12			
SMW-electronics Type		Base	Remote
ld. No.		0E010970	0E010971
A Thread	mm	M12 x 1	M12 x 1
В	mm	68	44
C	mm	59.3	35.3
D	mm	5	5
E	mm	3.7	3.7
L Cable length	mm	300	300
Housing material		CuZn, PA66, PC GF 30%	CuZn, PA66, PC GF 30%
Protection class		IP 67	IP 67
Operating temperature		-10°C +55°C	-10°C +55°C
Storage temperature		-25° +70°C	-25° +70°C
Coupling distance		0 mm 2.5 mm	0 mm 2.5 mm
Operating voltage		24V ± 10% DC	-
Output voltage		-	24V ± 10% DC
Power consumption (Base)		> 400mA	-
Power output (Remote)		-	< 50mA
Overload protection / short circuit protection		✓	✓
Residual ripple		-	< 200mV
Reverse polarity protection		✓	-
Data-Valid Output		max. 100mA	-
Operational readiness		< 20 ms	< 20 ms
PIN assignment	PIN	Signal Base	Signal Remote
Supply voltage	1	+24V IN	+24V OUT
Digital signal 1	2	0 / 24V OUT	0 / 24V IN
Ground connection	3	GND	GND
Digital signal 2	4	0 / 24V OUT	0 / 24V IN
Data-Valid	5	0 / 24V OUT	0 / 24V IN