M18-4

Axial coupler

Inductive Coupling System

■ Contact free transmission of energy and signals

Application/customer benefits

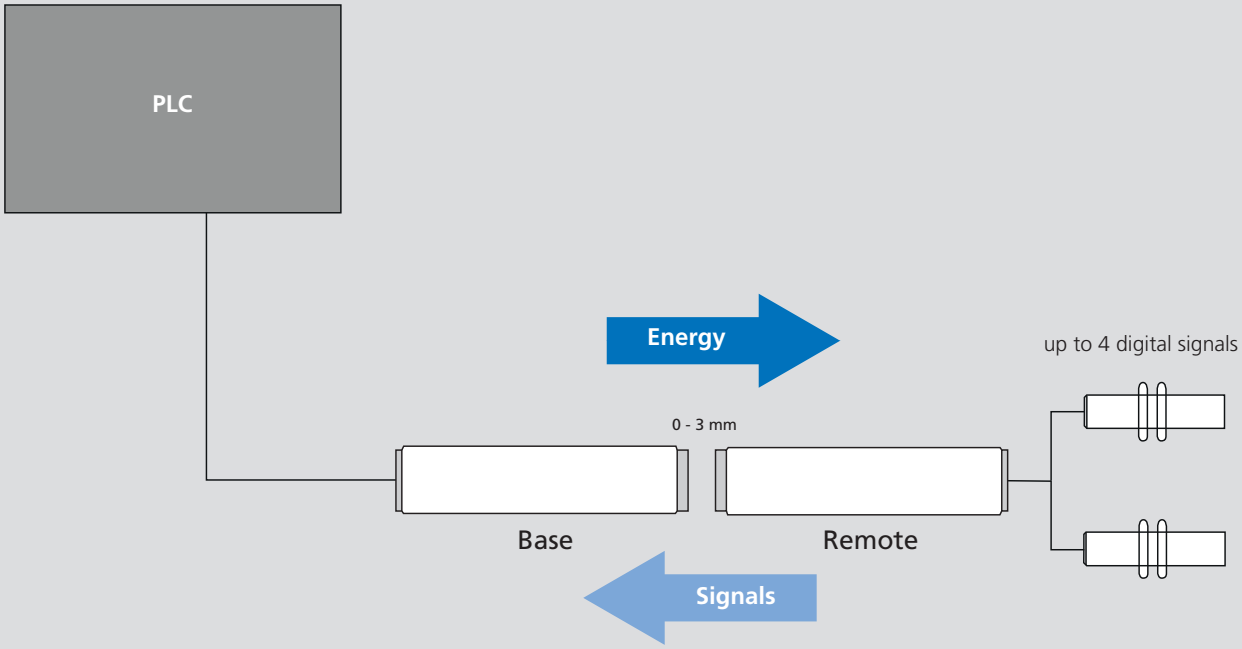
- Contact free, safe transmission of energy and signals between moving / rotating and stationary components
- Application examples: Automation, piloting of magnet valves, reading of status signals, online monitoring of sensor signals in the remote area, contacting at rotary tables, plug replacement for SPS signals
- Dynamic Pairing
- Wear and maintenance free
- Operating display

Technical features

- Mounting M18 x 1
- Operating voltage 22 V ... 30 V ± 10%
- Transmission distance 0 - 3 mm
- Transmission of energy: 12 V / 1.2 W (100 mA)
- Transmission of signals: 4 digital signals (PNP)
- Inverse-polarity protection (base), short-circuit proof (remote)
- Connection: Base cable 2000 mm open ended, remote cable 2000 mm open ended
- Protection class: IP 67
- Id. No. Base: 0E010954
  Id. No. Remote: 0E010955
- LED interface (base)

color:	green
slow flashing:	power on
static:	in position
fast flashing:	overload / short-circuit

Block diagram:



Subject to technical changes.
For more detailed information please ask our customer service.

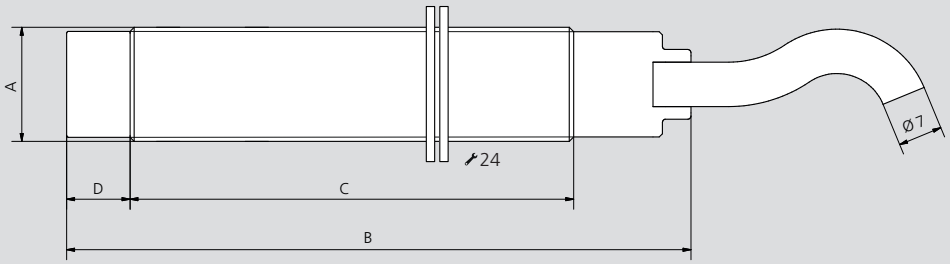
Inductive Coupling System

■ Stationary Unit - Base
■ Mobile Unit - Remote

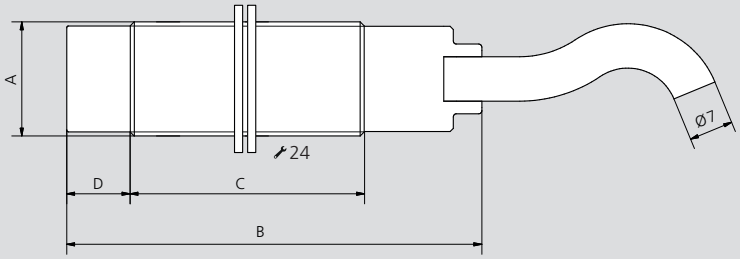
M18-4

Axial coupler

Base:



Remote:



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Inductive coupling system M18-4			
SMW-electronics Type		**Base**	**Remote**
Id. No.		**0E010954**	**0E010955**
A	mm	M18 x 1	
B	mm	98.5	65.5
C	mm	70	37
D	mm	10	
Cable length	mm	~ 2000	
Housing material		CuZn, PA66, PC GF 30%	
Protection class		IP 67	
Operating temperature		0° C ... +50° C	
Storage temperature		-10° C ... +70° C	
Transmission distance		0 mm ... 3 mm	
Operating voltage		22 V ... 30 V	-
Output voltage		-	12 V ± 10% DC
Power consumption (Base)		≤ 500 mA	-
Power output (Remote)		-	< 100 mA
Overload protection / short circuit protection		✓	✓
Residual ripple		-	< 200 mV
Reverse polarity protection		✓	-
Data-Valid Output		max. 100 mA	-
Ready delay		< 80 ms	

PIN assignment (*Legend)	PIN	Signal Base	Signal Remote
Connection line **WH (Base) / WH (Remote)**	1	Supply voltage 24 V IN	Supply voltage VCC 12 V OUT
Connection line **BU (Base) / BU (Remote)**	2	GND 0 V	GND
Connection line **GY (Base) / BN (Remote)**	3	Data-Valid 0 / 24 V OUT	Digital signal 1: 0 / 24 V IN
Connection line **BN (Base) / PK (Remote)**	4	Digital signal 1: 0 / 24 V OUT	Digital signal 2: 0 / 24 V IN
Connection line **PK (Base) / YE (Remote)**	5	Digital signal 2: 0 / 24 V OUT	Digital signal 3: 0 / 24 V IN
Connection line **YE (Base) / GN (Remote)**	6	Digital signal 3: 0 / 24 V OUT	Digital signal 4: 0 / 24 V IN
Connection line **GN (Base) / GY (Remote)**	7	Digital signal 4: 0 / 24 V OUT	-

(*Legend) WH = White; BU = Blue; GY = Grey; BN = Brown; PK = PINK; YE = YELLOW; GN = Green;