



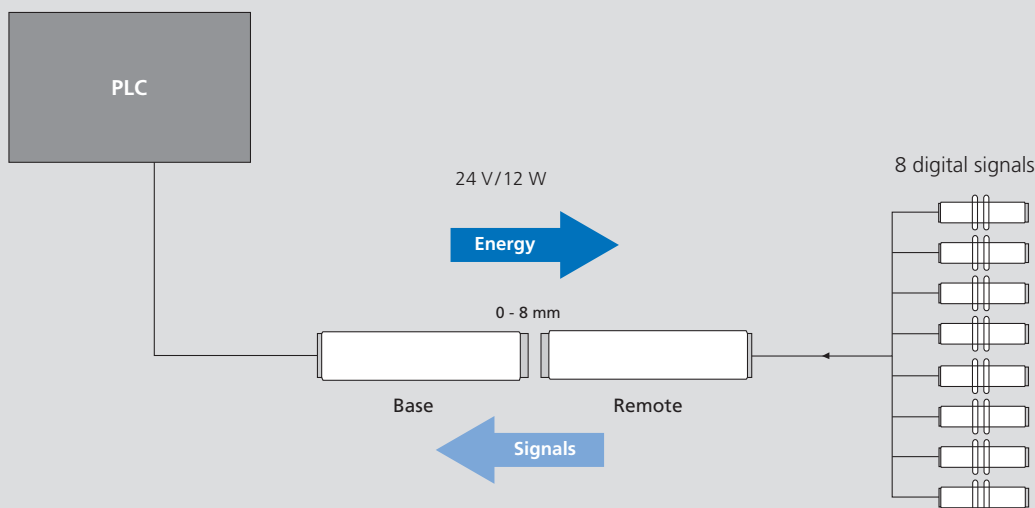
Application/customer benefits

- Contact free, safe transmission of energy and signals between moving / rotating and stationary components
- Application examples: Supply of sensors, supply and monitoring of remote systems
- Dynamic Pairing
- Wear and maintenance free
- Protection functions: Temperature monitoring, foreign object detection, reverse polarity protection
- Multilevel LED function display with good Visibility

Technical features

- Mounting M30 x 1.5
- Operating voltage 24 V (18 ... 30 V)
- Transmission distance 0 - 8 mm
- Transmission of energy: 24 V / 12 W (500 mA)
- Transmission of signals: 8 digital signals (PNP)
- Connection: Remote female connector M12 (12-pin), base male connector M12 (12-pin)
- Protection class IP 67
- Id. No. Base: 0E011602, Id. No. Remote: 0E011603

Block diagram:



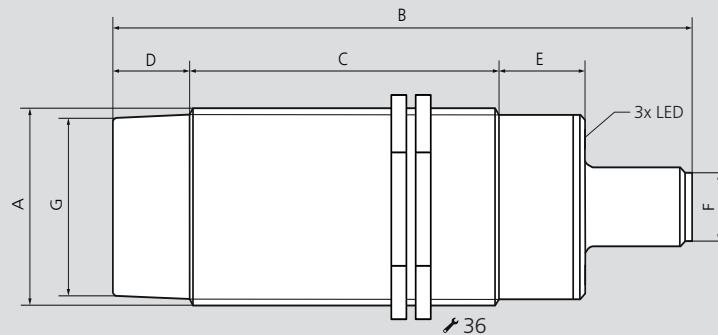
Subject to technical changes.
For more detailed information please ask our customer service.

Function Base		Function Remote	
LED Power		LED Coupling	
Color	Green / red	Color	Green / red
Function	Off » Unit not supplied with Voltage (or under Voltage)	Function	Off » Unit not connected
	On (green) » 24 V ok and mobile unit has been detected		On (green) » Unit connected, Voltage output DC 24 V ok
	Flashes 2 HZ green » 24 V ok but no mobile unit detected		Flashes 2 HZ red » Unit connected but short circuit at DC 24 V
	Flashes 1 HZ green / red » Incompatible mobile unit detected		Flashes 5 HZ red » Internal error
	Flashes 2 HZ red » Foreign object detected		
	Flashes 5 HZ red » Internal error		
LED Data Valid			
Color	Yellow		
Function	Off » No mobile unit detected		
	On » Mobile unit detected and signals are transmitted		
	2 HZ » Short circuit on at least one of the outputs		
	Flashes 5 HZ » Overload Voltage output mobile unit		

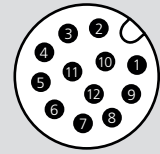
- Stationary Unit - Base
- Mobile Unit - Remote

Axial coupler

Base / Remote:

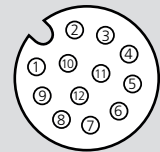


Base



Male connector 12-pin
M 12 x 1

Remote



Female connector 12-pin
M 12 x 1

Subject to technical changes.
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Inductive coupling system M30-8

SMW-electronics Type		Base	Remote
Id. No.		0E011602	0E011603
A	mm	M30 x 1.5	
B	mm	98	
C	mm	52	
D	mm	13	
E	mm	14.5	
F	mm	M12 x 1 / Male	M12 x 1 / Female
G	mm	Ø 27	

Housing material	1.4301 / PA 66 GF30
Protection class	IP 67
Operating temperature	-20°C ... +80°C
Storage temperature	-20°C ... +80°C
Transmission distance	0 mm ... 8 mm

Operating voltage	24 V (18 ... 30 V)	-
Output voltage	-	24 V ± 10% DC
Power consumption (Base)	< 1,5 A	-
Power output (Remote)	-	< 100 mA
Overload protection / short circuit protection	✓	✓
Residual ripple	-	< 200 mV
Reverse polarity protection	✓	-
Temperature monitoring	✓	✓
Data-Valid Output	150 mA	-
Ready delay	< 300 ms	

PIN assignment	PIN	Signal Base	Signal Remote
Supply voltage	1	24 V IN	24 V OUT
Digital signal 1	2	0/24 V OUT	0/24 V IN
Digital signal 2	3	0/24 V OUT	0/24 V IN
Digital signal 3	4	0/24 V OUT	0/24 V IN
Digital signal 4	5	0/24 V OUT	0/24V IN
Digital signal 5	6	0/24 V OUT	0/24 V IN
Digital signal 6	7	0/24 V OUT	0/24 V IN
Digital signal 7	8	0/24 V OUT	0/24 V IN
Digital signal 8	9	0/24 V OUT	0/24 V IN
Ground	10	GND	GND
Data-Valid	11	DAV 24 V	-
-	12	-	-