



Application/customer benefits

- Contact free 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

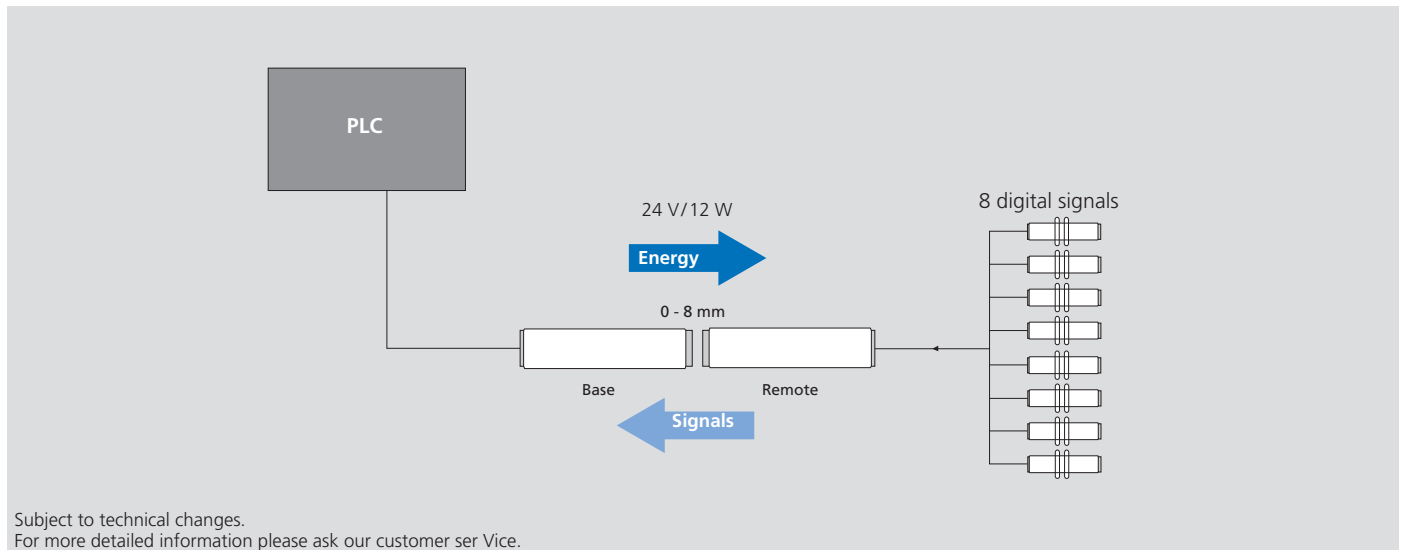
Technical features

- 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), digital output 50 mA
- Connection: Remote female connector M12 (12-pin), base male connector M12 (12-pin)
- Protection class: IP67

Lieferumfang

Induktiv Koppler Base oder Remote

Block diagram



LED Function display Base

LED Power	
Color	Green/red
Function	Off green » Unit not supplied with voltage
	Flashes green for 3 s/0.5 s » Device supplied with voltage 18 V < U < 30 V
	On green » Voltage ok and mobile unit detected
	Flashes 2 Hz red/green » Alternately U in > 30 V, remote overload
	Flashes 2 Hz red » Base overtemperature
Function	Flashes red for 3 s/0.5 s » Foreign object detected
LED Signal 1	
Color	Yellow/red
Function	Off yellow » No mobile unit detected
	On yellow » Mobile unit detected, no IOL mode
	Flashes 900 ms/100 ms yellow » IOL mode (COM1, COM2, COM3)
	2 Hz red » Signal overload (C/Q, DO, DAV)
LED Signal 2	
Color	Yellow
Function	Off yellow » Digital channel not switched (low)
	On yellow » Digital channel switched (high)
Data Valid Output	
Function	ON » Handset has been recognized and there is no error
	OFF » The data at the output is not valid because the handset is not recognized, overload at the output, handset power supply overloaded.

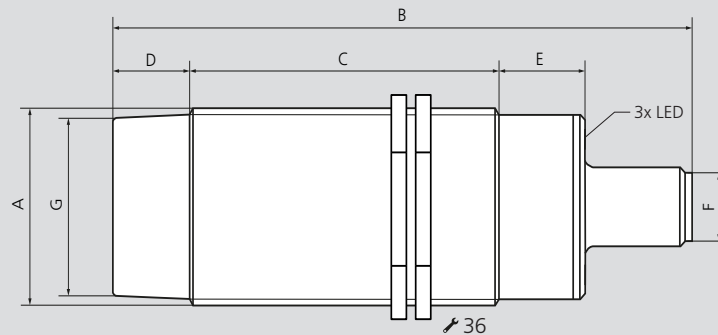
LED Function display Remote

LED Coupling	
Color	Green/red
Function	Off green » Device is not coupled
	On green » Device is coupled and 24 V out ok
	2Hz red/green » Overload at 24 V out or insufficient power supply
	2Hz red » Overtemperature
	2Hz red » Overload cut-off at 24 V out
LED Signal 1	
Color	Yellow/red
Function	Off yellow » No stationary part detected
	On yellow » Stationary part detected, no IOL mode
	Flashes 900 ms/100 ms yellow » IOL mode (COM1, COM2, COM3)
	2 Hz red » Signal overload (C/Q)
LED Signal 2	
Color	Yellow
Function	Off yellow » Digital channel not switched (low)
	On yellow » Digital channel not switched (high)

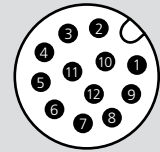
- Stationary Unit - Base
- Mobile Unit - Remote

Axial coupler

Base / Remote:

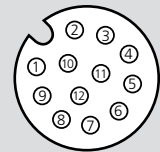


Base



Male connector 12-pin
M 12 x 1

Remote



Female connector 12-pin
M 12 x 1

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

Inductive coupling system M30-8				
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		
Weight	kg	0.13		0.13
Operating voltage		24 V ± 10% DC		-
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		-
Digital output		50 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		0/24 V 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	-		-