

# LPS 4.0 14 IO

## Linear Position Sensor

Measuring range 14 mm



### Application/customer benefits

- High precise inductive linear position measuring system
- Ready for Industry 4.0

### Technical features

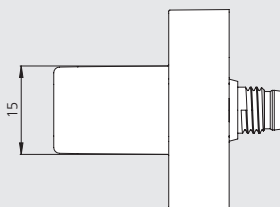
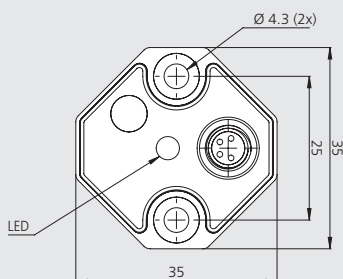
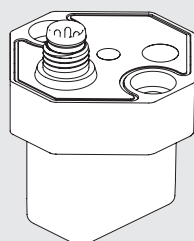
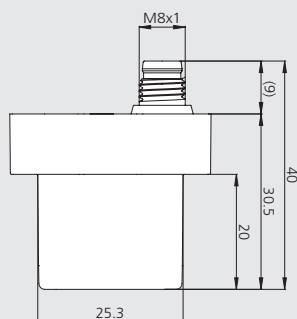
- Inductive measuring system
- No interference from magnetic fields
- Measuring range = 14 mm
- Compact design / simple installation
- Analog output 0 - 10 V (Id. No. 208106)
- IO-Link standard interface
- Protection class IP 67

### Standard equipment

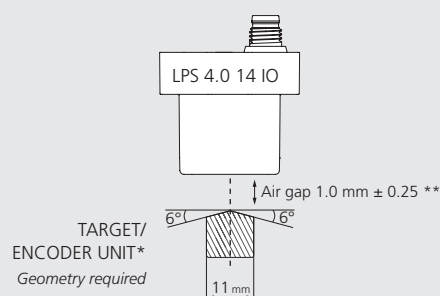
LPS 4.0 14 IO without cable

### Ordering example

LPS 4.0 14 IO 0 - 10 V  
Id. No. 208106  
Cable with elbow plug 5 m  
Id. No. 208241



### INDUCTIVE POSITION MEASUREMENT



\* Not included  
\*\* Recommended

### Pin Assignment

Pin	Description
1	24 V DC
2	Signal output 0 - 10 V
3	GND
4	C/Q (IO-Link)

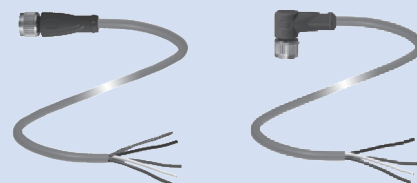
Male connector  
M 8 x 1



## Technical data

SMW-AUTOBLOK Type	LPS 4.0 14 IO 0 - 10 V
Id. No.	208106
Measuring range	14 mm
Output signal	0 - 10 V
Power supply	24 V DC
Repeat accuracy	± 0.05 mm
Linearity	± 0.20 mm
Temperature drift	0.25 mm
Operating temperature	10 - 60°
Protection class	IP 67
Interface	IO-Link 1.0
MTTF <sub>a</sub>	490 a
Mission time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0%

Cables for LPS 4.0 14 IO*	Length	Id. No.
Sensor connection cable straight plug M8 x 1 5-pin	5 m	208238
	10 m	208239
	15 m	208240
Sensor connection cable elbow plug M8 x 1 5-pin	5 m	208241
	10 m	208242
	15 m	208243



\* Shielded PUR cable, 1 side cable end, 1 side with socket M8 x 1, machined and gold-plated contacts.

# LPS 4.0 48 IO

Linear Position Sensor  
Measuring range 48 mm

## Linear Position Sensor

■ For SMW-AUTOBLOK hydraulic clamping cylinders



IO-Link

### Application/customer benefits

- Monitoring of the entire cylinder stroke / safe controlling of any clamping position
- No repositioning of prox. switches when changing workpiece
- Ready for Industry 4.0

### Technical features

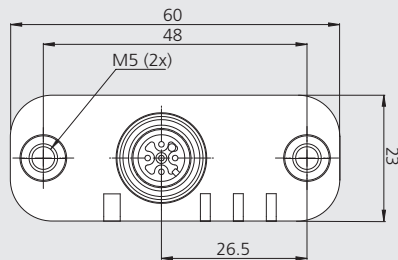
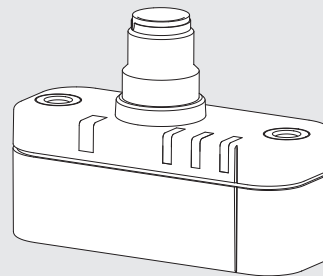
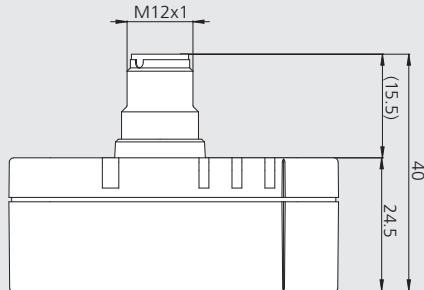
- Inductive measuring principle
- No interference from magnetic fields
- Measuring range = 48 mm
- Compact design / simple installation
- Analog output 0 - 10 V ( Id. No. 208108) / 4 - 20 mA (Id. No. 208107)
- IO Link standard interface
- Protection class IP 67
- LEDs for operating status

### Standard equipment

LPS 4.0 48 IO without cable

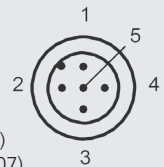
### Ordering example

LPS 4.0 48 IO 0 - 10 V  
Id. No. 208108  
Cable with elbow plug 5 m  
Id. No. 208247



#### Pin Assignment Plug M12 x 1

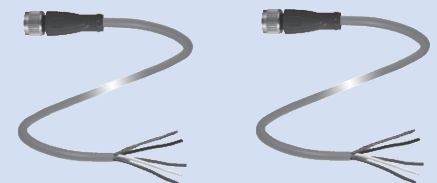
Pin	Description
1	24V DC
2	not used
3	GND
4	C/O (data)
5	Signal output 0 - 10 V (Id. No. 208108) Signal output 4 - 20 mA (Id. No. 208107)



## Technical data

SMW-AUTOBLOK Type	LPS 4.0 48 IO 0 - 10 V	LPS 4.0 48 IO 4 - 20 mA
Id. No.	208108	208107
Measuring range	48 mm	48 mm
Signal	0 - 10 V	4 - 20 mA
Supply	24 V DC	24 V DC
Repeat accuracy	± 0.1 mm	± 0.1 mm
Linearity	± 0.2 mm	± 0.2 mm
Temperature drift	0.25 mm	0.25 mm
Operating temperature	0 - 70°	0 - 70°
Protection class	IP 67	IP 67
Interface	IO Link 1.1	IO Link 1.1

Cables for LPS 4.0 48 IO*	Length	Id. No.
Sensor connection cable straight plug M 12 x 1 5-pin	5 m	208244
	10 m	208245
	15 m	208246
Sensor connection cable elbow plug M 12 x 1 5-pin	5 m	208247
	10 m	208248
	15 m	208249



\* Shielded PUR cable, 1 side cable end, 1 side with socket M12 x 1, machined and gold-plated contacts.



**Application/customer benefits**

- High precise inductive linear position measuring system
- Ready for Industry 4.0

**Technical features**

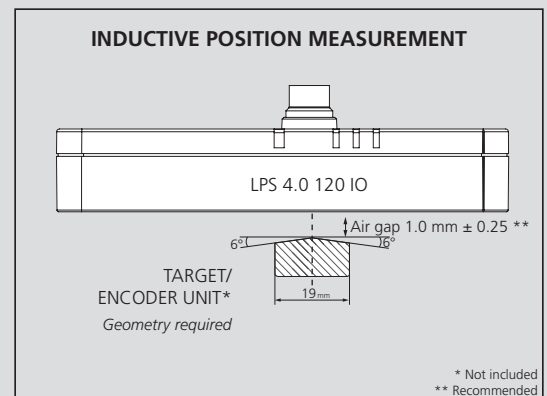
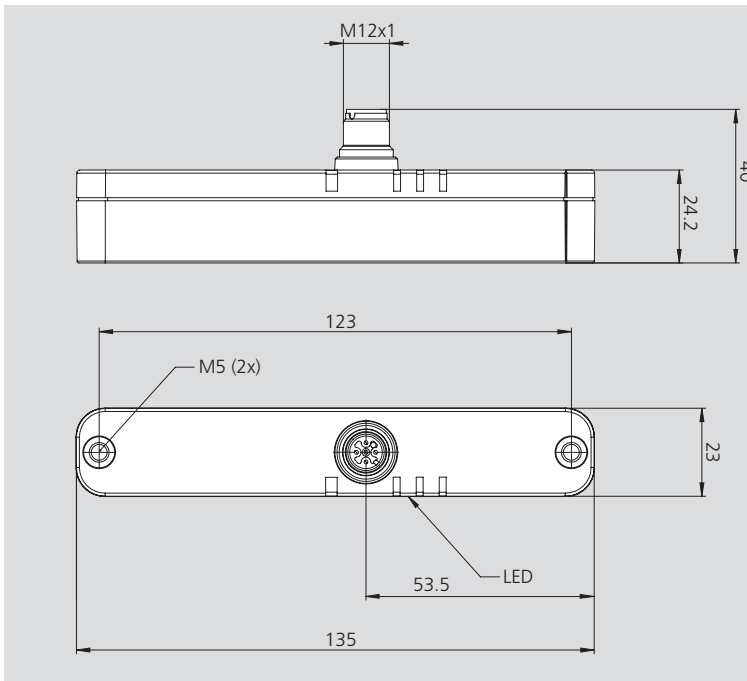
- Inductive measuring system
- No interference from magnetic fields
- Measuring range = 120 mm
- Compact design / simple installation
- Analog output 0 - 10V ( Id. No. 208110) / 4 - 20mA (Id. No. 208109)
- IO Link standard interface
- Protection class IP 67
- LEDs for operating status

**Standard equipment**

LPS 4.0 120 IO without cable

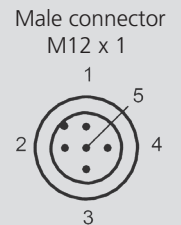
**Ordering example**

LPS 4.0 120 IO 0 - 10V  
 Id. No. 208110  
 Cable with elbow plug 5 m  
 Id. No. 208247



**Pin Assignment**

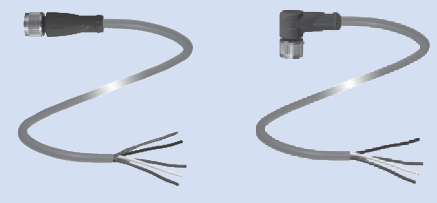
Pin	Description
1	24V DC
2	not used
3	GND
4	C/Q (IO-Link)
5	Signal output 0 - 10V (Id. No. 208110) Signal output 4 - 20mA (Id. No. 208109)



**Technical data**

SMW-AUTOBLOK Type	LPS 4.0 120 IO 0 - 10 V	LPS 4.0 120 IO 4 - 20 mA
Id. No.	208110	208109
Measuring range		120 mm
Output signal	0 - 10 V	4 - 20 mA
Power supply		24 V DC
Repeat accuracy		± 0.1 mm
Linearity		± 0.2 mm
Temperature drift		0.25 mm
Operating temperature		0 - 70°
Protection class		IP 67
Interface		IO-Link 1.1
MTTF <sub>a</sub>		271 a
Mission time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0%

Cables for LPS 4.0 120 IO*	Length	Id. No.
Sensor connection cable straight plug M12 x 1 5-pin	5 m	208244
	10 m	208245
	15 m	208246
Sensor connection cable elbow plug M12 x 1 5-pin	5 m	208247
	10 m	208248
	15 m	208249



\* Shielded PUR cable, 1 side cable end, 1 side with socket M12 x 1, machined and gold-plated contacts.