COPY OF THE ORIGINAL

INSTRUCTION MANUAL

LINEAR POSITION SENSOR

Type LPS 4.0 80 IO

worldwide • weltweit • worldwide

Date: 2023-10
Version: 1
Language: English

SMW AUTOBLOK

Content

INSTRUCTION MANUAL
Linear Position Sensor
Type LPS 4.0 80 IO

with analog interface 0..10V/4..20mA
with IO-Link Interface
Measuring range 0..80mm

Thank you for purchasing an Original-SMW-AUTOBLOK Linear Position Sensor LPS 4.0.

This **instruction manual** contains the installation, the use and the maintenance instructions of the **„LPS 4.0“**.

SMW-AUTOBLOK reserves the right to make **changes without notice**.

This **instruction manual is a part of the „LPS 4.0“** and must be passed to the new owner in case of sale.

This **instruction manual may not be** -in whole or in part- **copied** without our written agreement.

Please read the instruction manual carefully before installation and use and always follow the regulations.

Please note especially the sections which are marked with the following signs:

- **Danger of injury or danger to life if instructions are not followed.**
- **Danger of damage to the sensor, the machine or the components.**

Declaration of incorporation

for a partly completed machinery to machine directive 2006/42/EC

The manufacturer:	SMW-Autoblok Spannsysteme GmbH Wiesentalstraße 28 88074 Meckenbeuren Deutschland / Germany Tel.: +49 (0) 7542 - 405 0

herby declares, that the following product:

Product description:	Linear Position Sensor
Type:	LPS 4.0 80 IO
Ident-No.:	212000 / 212001

Due to its concept and design as it is introduced into the market is according to the following general safety and health EU regulations.

Machine directive:	2006/42/EC
EMI directive:	2004/108/EC

Applied harmonized norms:

Emission:	EN 61000-6-3
Immunity:	EN 61000-6-2

Date: 20.06.2018

Signature of responsible person

General safety instructions

1. Intended use

The linear positioning sensor is exclusively intended to be used as a parts of a production machine. The sensor must only be installed and operated by personal authorized and advised by the operation, that is qualified according to the valid national laws and according to the national and international regulations. Any other use is a non authorized use, and can cause hazards to health and life of persons as well as damage to material.

The sensor must only be used in perfect functioning condition. The advises of this manual must always be observed.

For any other use than the intended use or any other use than authorised by the manufacturer the operator is sole and fully responsible. Any changes carried out at the sensor must be authorised by the manufacturer and must be documented properly.

In addition to this manual all laws, norms and regulations must be observed.

2. Safety requirements

In order to protect the unit against fire, electric shock or potential destruction of the electronic components, it must never be exposed to rain or extreme humidity. Direct sun or heat are to be avoided as well.

3. Calibration, recalibration

The linear positioning sensor is adjusted and calibrated at the factory for the measuring path specified.

If the linear positioning sensor is not used as an absolute measuring system, recalibration is not necessary.

If you are in doubt, please contact the manufacturer.

A recalibration can only be carried out in the factory.

4. Warranty and avoiding of harms

This manual is the basis for installation, use and opertation of the linear positioning sensor.

Before using the linear positioning sensor read the manual carefully. This manual must remain stored at the machine where the linear position sensor installed.

All operations described in this manual must only be carried out by capable personal authorized by the operation.

5. Safety

Always follow the regulations concerning safe working, protection clothes and any other protection devices to be used at the corresponding production machine.

6. General safety advises

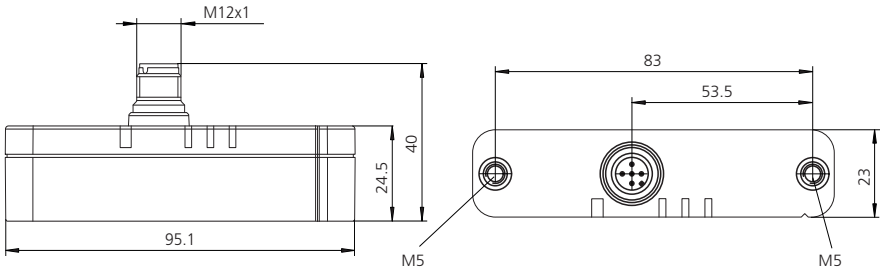
- All safety advises, national and international regulations to avoid accidents as well as company internal working and operation advises have to be observed.
- Any conditions causing hazards have to be avoided.
- Interferences that can cause hazards have to be eliminated immediately.
- Ignoring the safety instructions can cause hazards to persons, environment and / or can cause damage and will make any warranty void.
- During installation, the installation and maintenance of the linear positioning sensor all safety regulations of the machine, into which the sensor is installed, must be observed.
- Prior to any runoff this manual must read, and all safety advises must be followed.
- The manufacturer refuses any claims for problems caused by not following this manual.

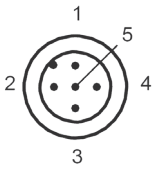
7. Safety advises for operation

- When using the linear positioning sensor in safety relevant operations, precautions must be taken to avoid danger for personal and machine, in case of failure of the sensor. This can be done by posting safety advises on the machine or by adding safety advises to the manual of the machine. Additionally the machine maker can add suitable (mechanical) protections , to avoid any hazards. We also refer to the trouble shooting.
- The installation and run off must be carried out by qualified personal. All safety regulations for electronic installations must be observed.
- The sensor must not be opened at all!
- Before use all connections must be double checked carefully.
- Never touch the sensing surface (opposed to the plug) with sharp or tipped articles. Use a soft tissue only.

Insufficient or improper maintenance makes any warranty from SMW-AUTOBLOK void.

In case of problems or questions please contact SMW-AUTOBLOK directly or one of our authorized offices.





Pin Assignment Plug M12 x 1

Pin	Description
1	24V DC
2	not used
3	GND
4	C/Q (data)
5	Signal output 0-10 V (Id. No. 212001) Signal output 4-20 mA (Id. No. 212000)

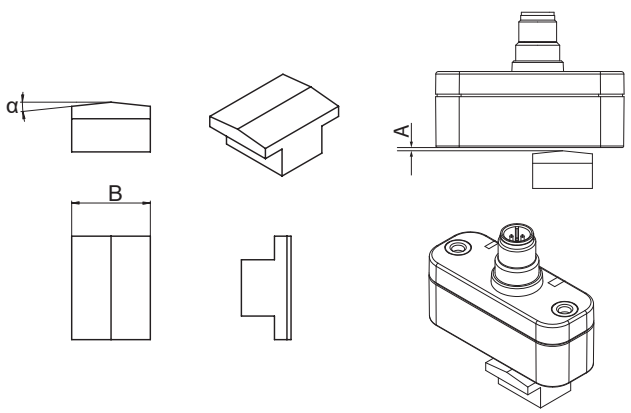
Linear position sensor	LPS 4.0 80 IO
Power supply	24VDC ±10%@ 35mA typ. Inverse-polarity and overvoltage protection
Interface	0...10V, short-circuit-proof, oad > 2kOhm (Id. Nr. 212001), 0/4..20mA, load <500 Ohm (Id. Nr. 212000), IO Link 1.1
Function monitoring	on error: output 0V or 0mA
Resolution	ca. 5mV
Reproducibility	±0,1mm
Linearity	±0,2 mm
Temperature drift	±0.25mm through the whole operating temperature range, temperature engaged
Measuring frequency	33Hz
EMV Compatiblity	EN61000-6-2 Immunity / EN61000-6-4 Emission
Power-on phase	The first measuring value is available after 3 sec. approximately
Case dimensions	L x W x H; 60 x 23 x 24,5 mm
Case material	Plastic
Case protection class	IP 67
Mounting	via 2 M5x5 threaded holes in the bottom of the case
Operation and storing temperature ranges	0 to 75°C
Connections	5-pin connector M12x1, male

Dimensioning Cam / Shiftring

Recommended dimensions of Cams / Shiftrings:

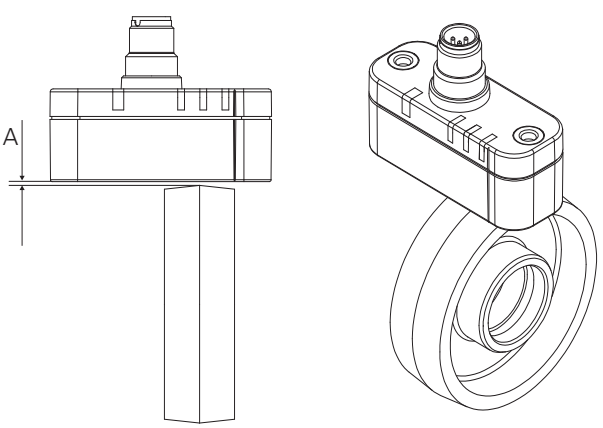
Dimensions	Info
Distance A = 1.0 mm ± 0.25	A = recommended distance (inside and parallel) between the measuring surface and the Shiftring (ring shape)
Width B = 11 mm	B = recommended width of the Cam or Shiftring
Angle α = 6°	α = Angle min. 6°

Cam



Example of a cam

Shift ring



Example for an shift ring

Signal output

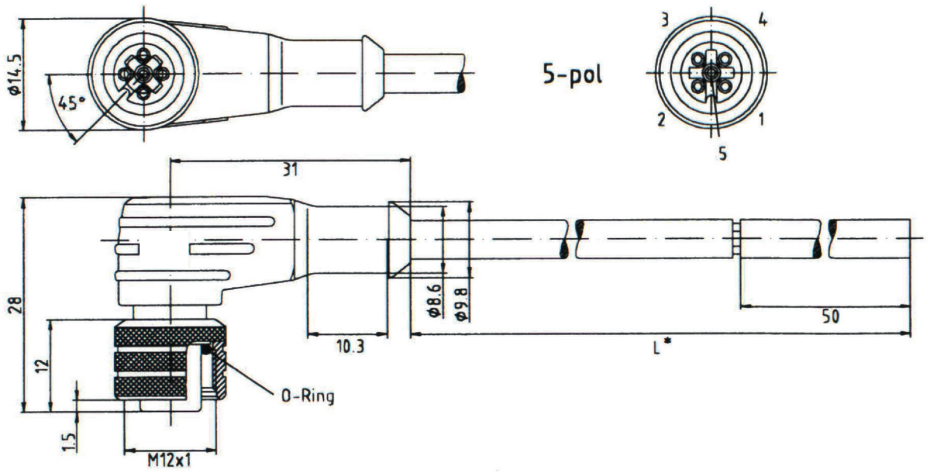
Analog interface

The LPS 4.0 with analog signal output provides 0...10V or 4..20mA, corresponding to 0...80mm. If there is an upper or lower deviation from the measuring range or in case of an error, 0V or 0mA is output.

Pin assignment, analog

The following pin assignment applies to the 5-pin cable connector M12x1:

Pin	Description	Comment	5-pin cable
1	24V DC	+/- 10%	brown
2	not used		white
3	GND		blue
4	CQ (Data)	must not be used	black
5	Signal out	0..10V, 4..20mA	grey



Cable colours:

1 = brown
2 = white
3 = blue
4 = black
5 = grey

Use only 5-pin shielded cable

Use only 5-pin shielded cable. GND is used for power supply and signal. Shield connected on one side at the female connector.

The pin assignment is binding

The pin assignment is binding. The lead colours of the cable may vary.

Analog connection

After the module has been assembled, the cable is connected to the PLC control via a shielded connection cable according to the pin assignment. Only 3 of the 5 wires are relevant for the user.
The other two must neither be stripped nor used for any other purposes. The shield should be connected all over and possibly on both sides. Differences in the shield ground(s) are to be avoided; if need be, the shield may be connected only on one side. The securing screw of the M12 fl anged connector must be tightened moderately.

Do not lay connection cables in parallel to cables!

Do not lay connection cables in parallel to cables which could cause interferences.

Consider cable crosssection and cable length!

Per ohm copper resistance, about 35mV offset are added to the measuring signal. Cable crosssection and cable length are to be taken into account.

Electric power

When connecting the test sensor to power, all safety advises of the machine or of the external unit (see the corresponding manuals) have to be observed.
The connection must only be carried out by qualified personal.

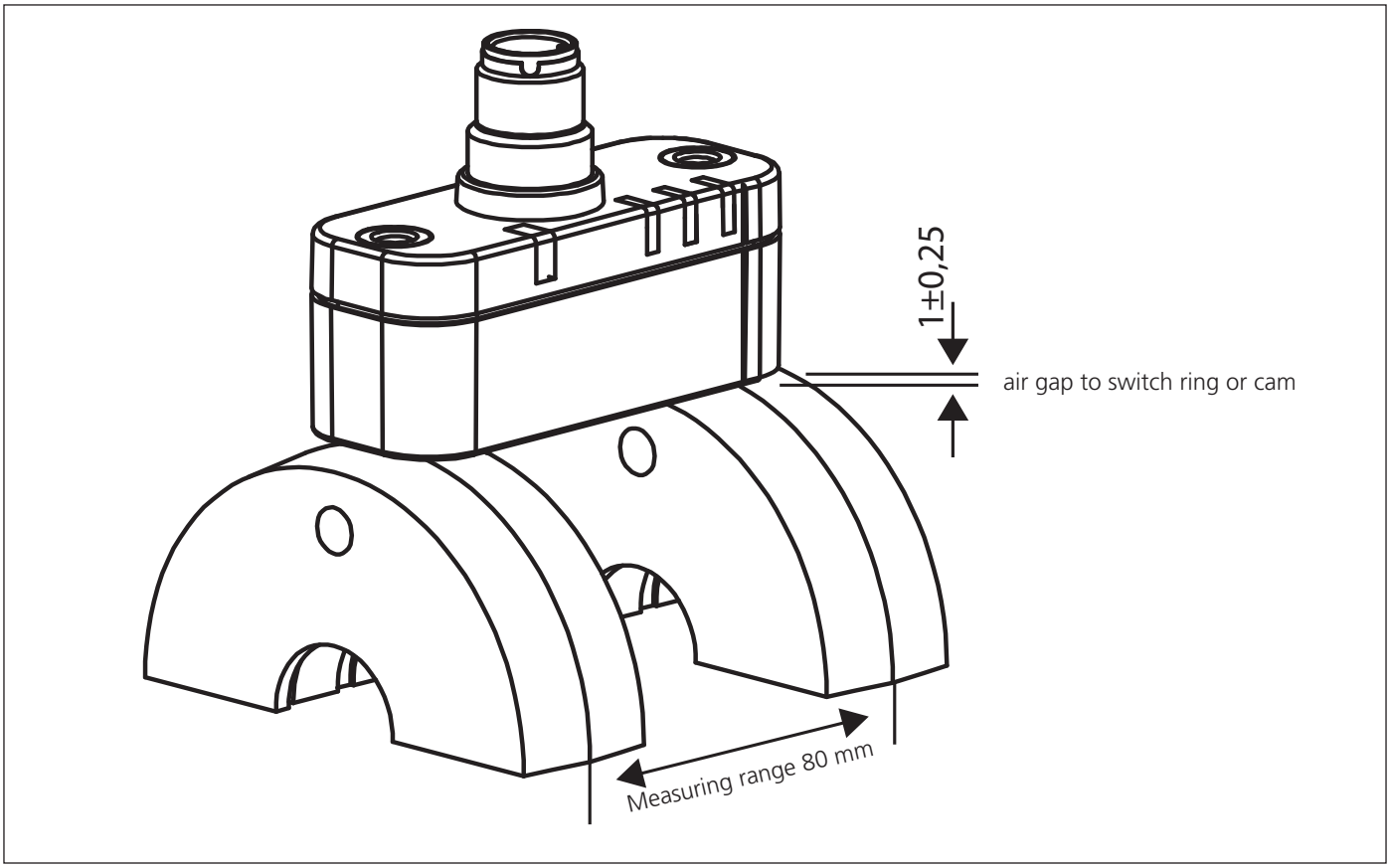
Mounting LPS 4.0

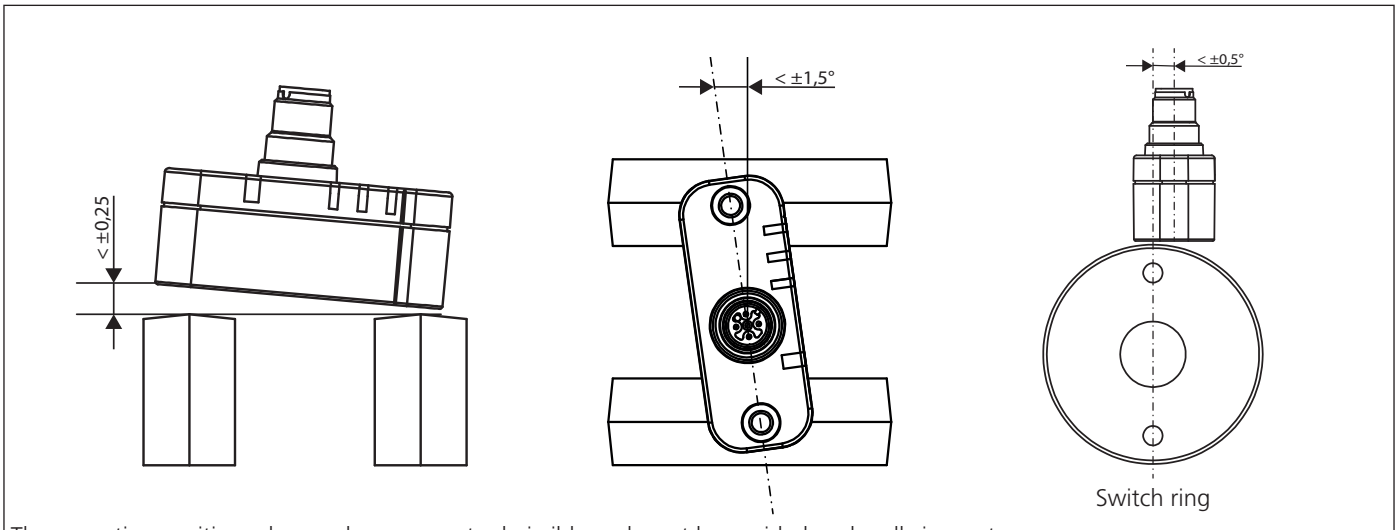
Special care must be taken when mounting

Special care must be taken when mounting the sensor module since correct mounting is decisive for the quality of the measurement signal.

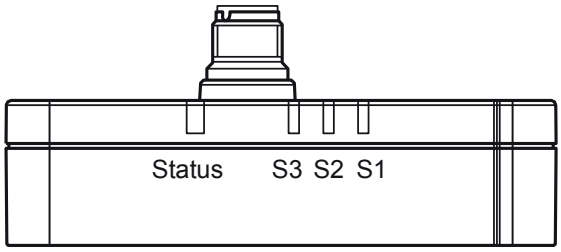
The following procedure is recommended:

- Mount the LPS 4.0 by means of a support (not contained in the delivery package).
- Set the exact distance to the switch ring (ring shape) or cam.
- Take care that the sensor module is in an exact parallel position to and is concentric with the cylinder axis.
- No minimum distance to metal surfaces has to be observed on the sides, the front and the side facing the support; a distance of 10mm must be kept towards the measuring surface opposite the support..





The mounting positions shown above are not admissible and must be avoided under all circumstances.
LPS 4.0 scale drawing with tolerances



Standard display behavior of LEDs

LED	Color	Description
Status	Green	On = supply voltage is OK Off = no supply voltage Short flashes on and off = IO-Link communication is active
Status	Red	Flashing (approx. 4 Hz) = a short circuit to a sensor output has been detected. Pulsating flashing (approx. 0.8 Hz) = Low voltage of the supply voltage has been detected. Note: If activated via IO-Link, On = no damping element is detected in the detection range (max. measuring range). See table below.
S3	Yellow	Switching state of switching output 1: On = switching output has switched, because a target is on the switch point or in the switching window Off = switching output has not switched

Display behavior of LEDs can be activated via IO-Link

LED	Color	Description
Status	Red	Permanent additional information on the detection of the damping element for all product variants. ■ On = no target is detected in the detection range (max. measuring range) ■ Off = a target is detected in the detection range (max. measuring range) Activation via parameter „0x78, subindex 1 = no target detected (warning)“ to value „1“ or via the parameter menu, „Event configuration“section, „No Damping Element detected (Warning)“ function set to „Enabled.“
S1 ... S3 und Status	Yellow, Green	Localization function ■ LEDs S1 ... S3 flashing simultaneously in yellow and the LED status in green. To easily detect the sensor installed in a machine or plant, conspicuous LED flashing behavior can be activated and deactivated again via IO-Link for the sensor search. After isolating the sensor from the supply voltage, the flashing behavior is deactivated again as standard. Activation via parameter „0x7f = Locator Indication“ to value 1 or via the Diagnosis menu, „Service function“ function, indication setting set to „Locator Indication.“

Input data structure

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
Position value												0			
AD11	AD10	AD9	AD8	AD7	AD6	AD5	AD4	AD3	AD2	AD1	AD0	res	BD3	BD2	BD1

Function

BD1	Switching signal 1
BD2	Switching signal 2
BD3	Switching signal 3
AD	Position value

Values

BDn	bool	0	Switched off
		1	Switched n
AD		0... max. position	Valid position value in 1/20 mm LPS 4.0 80: 0...960
		4092	Insufficient signal quality
		4093	Outside of the value range (below the value range)
		4094	Outside of the value range (above the value range)
		4095	No target

IO-Link Process Data Structure and Parameters

Configuration

BD1 switchpoint logic	Index 0x3D Subindex 1	
	0 (High-Active)	1 (Low-Active)
BD1 - switching signal 1:		
Target outside of the limits	0	1
Target within the limits	1	0

BD2 switchpoint logic	Index 0x3F Subindex 1	
	0 (High-Active)	1 (Low-Active)
BD2 - switching signal 2:		
Target outside of the limits	0	1
Target within the limits	1	0

BD3 switchpoint logic	Index 0x400	
	0 (High-Active)	1 (Low-Active)
BD3 - switching signal 3:		
Target outside of the limits	0	1
Target within the limits	1	0

IO-Link Communication and ID Parameters

Direct Paramter Page 1 - Index 0x00							
Sub	**Address hex**	**Name**	**Type**	**Data type**	**Attribute**	**Value**	**Comment**
	Communication Control						
1	0x00	Master Command	R/W	uint8	volatile		written by master
2	0x01	Master cycle time	R/W	uint8	volatile		written by master
3	0x02	Min. cylce time	R	uint8	constant	0x17	2.3 ms
4	0x03	M-sequence capability	R	uint8	constant	0x21	ISDU support
5	0x04	Revision ID	R	uint8	constant	0x11	IO-Link version 1.1
6	0x05	Process Data in	R	uint8	constant	0x50	16bit Pdin, SIO support
7	0x06	Process Data out	R	uint8	constant	0x00	n/a
	Identification Parameter						
8	0x07	IO-Link Vendor ID1 (MSB)	R	uint8	constant	0x04	SMW-AUTOBLOK
9	0x08	IO-Link Vendor ID2 (LSB)	R	uint8	constant	0x46	
10	0x09	Device ID1 (MSB)	R	uint8	constant	0x03	LPS 4.0 80 IO 212001 0-10V 212000 4-20mA
11	0x0A	Device ID2	R	uint8	constant	0x2C	
12	0x0B	Device ID3 (LSB)	R	uint8	constant	0xEC 0-10V 0XEB 4-2mA	
13	0x0C	Function ID1 (MSB)	R/W	uint8	static	0x00	not used
14	0x0D	Function ID2 (LSB)	R/W	uint8	static	0x00	

IO-Link Standard Parameters

System Command (Index 0x02)

Value hex	Function
0x82	Restore Factory Settings

Profile ID (Index 0x0D)

Subindex	Value hex	Function
1	0x0001	Smart Sensor Profile supported
2	0x8000	Device Identification
3	0x8001	Binary data channel
4	0x8002	Process Data Variable
5	0x8003	Device Diagnosis

PD input descriptor (Index 0x0E)

Subindex	Value hex	Function
1	0x10300	SetFBool3.0
2	0x020C04	UIntegerT12.4

Parameters for Identification

Index hex	Name	Type	Data type
0x10	Vendor Name	R	char [18]
0x11	Vendor Text	R	char [max 32]
0x12	Product Name	R	char [max 32]
0x13	Product ID	R	char [11]
0x14	Product Text	R	char [max 32]
0x15	Serial Number	R	char [14]
0x16	Hardware Revision	R	char [7]
0x17	Firmware revision	R	char [7]
0x18	Application Specific Name	R/W	char [max 32]
0xC0	User Tag	R/W	char [max 32]

IO-Link Device Parameter

Note:
The existing indexes for the various sensors differ according to their properties. For example, indexes for parameterizing an analog output are only available for sensors with an analog output.

Index hex	sub	Name	Type	Data type	Value	Default	Unit
Switching Signal Channel 1 (Data Storage = yes)							
0x3C	1	Setpoint SP1	R/W	unit16	LPS 4.0 80: 0...960	240	1/20 mm
	2	Setpoint SP2	R/W	unit16	LPS 4.0 80: 0...960	960	1/20 mm
0x3D	1	Switchpoint Logic	R/W	unit8	0: High-Active 1: Low-Active	0	
	2	Switchpoint Mode	R/W	unit8	0x01 - Single Point 0x02 - Window Mode 0x03 - Two Point Mode 0x080 - Centered Window Mode	0x80	
	3	Switchpoint Hysteresis	R/W	unit16	0: Low 1: Medium 2: High	0	
0x40	1	Window Width	R/W	unit16	LPS 4.0 80: 0...960	20	1/20 mm
	2	Off Delay	R/W	unit16	0...6000	0	ms
	3	On Delay	R/W	unit16	0...6000	0	ms
	4	Error Behavior	R/W	unit8	0: State Freeze 1: Maximum Position 2: High 3: Low	3	
Switching Signal Channel 2 (Data Storage = yes)							
0x3E	1	Setpoint SP1	R/W	unit16	LPS 4.0 80: 0...960	720	1/20 mm
	2	Setpoint SP2	R/W	unit16	LPS 4.0 80: 0...960	960	1/20 mm
0x3F	1	Switchpoint Logic	R/W	unit8	0: High-Active 1: Low-Active	0	
	2	Switchpoint Mode	R/W	unit8	0x01 - Single Point 0x02 - Window Mode 0x03 - Two Point Mode 0x80 - Centered Window Mode	0x80	
	3	Switchpoint Hysteresis	R/W	unit16	0: Low 1: Medium 2: High	0	
0x41	1	Window Width	R/W	unit16	LPS 4.0 80: 0...960	20	1/20 mm
	2	Off Delay	R/W	unit16	0...6000	0	ms
	3	On Delay	R/W	unit16	0...6000	0	ms
	4	Error Behavior	R/W	unit8	0: State Freeze 1: Maximum Position 2: High 3: Low	3	

Index hex	sub	Name	Type	Data type	Value	Default	Unit
Switching Signal Channel 3 (Data Storage = yes)							
0x4000	1	Setpoint SP1	R/W	unit16	LPS 4.0 80: 0...960	480	1/20 mm
	2	Setpoint SP2	R/W	unit16	LPS 4.0 80: 0...960	960	1/20 mm
0x4001	1	Switchpoint Logic	R/W	unit8	0: High-Active 1: Low-Active	0	
	2	Switchpoint Mode	R/W	unit8	0x01 - Single Point 0x02 - Window Mode 0x03 - Two Point Mode 0x080 - Centered Window Mode	0x80	
	3	Switchpoint Hysteresis	R/W	unit16	0: Low 1: Medium 2: High	0	
0x43	1	Window Width	R/W	unit16	LPS 4.0 80: 0...960	20	1/20 mm
	2	Off Delay	R/W	unit16	0...6000	0	ms
	3	On Delay	R/W	unit16	0...6000	0	ms
	4	Error Behavior	R/W	unit8	0: State Freeze 1: Maximum Position 2: High 3: Low	3	
Analog Output (Data Storage = yes)							
0x42	1	Range Limit 1	R/W	unit16	LPS 4.0 80: 0...960	0	1/20 mm
	2	Range Limit 2	R/W	unit16	LPS 4.0 80: 0...960	960	1/20 mm
0x72	1	Analog Output Type	R/W	unit8	0: Current 1: Voltage	0	
	2	Analog Output Mode	R/W	unit8	0: Rising 1: Falling	0	
	3	Current - Lower Output Value	R/W	unit8	0...200	40	0,1 mA
	4	Current - Upper Output Value	R/W	unit8	0...200	200	0,1 mA
	5	Voltage - Lower Output Value	R/W	unit8	0...100	0	0,1 V
	6	Voltage - Upper Output Value	R/W	unit8	0...100	100	0,1 V
	7	Analog Output Error Behavior	R/W	unit8	0: Output Value Freeze 1: Maximum Position 2: Error Replacement Value	2	
	8	Current - Error Replacement Value	R/W	unit8	0...200	0	0,1 mA
	9	Voltage - Error Replacement Value	R/W	unit8	0...100	0	0,1V

IO-Link Process Data Structure and Parameters

Index hex	sub	Name	Type	Data type	Value	Default	Unit
Event Configuration (Data Storage = yes)							
0x78	1	No Target (Warning)	R/W	bool	0: Disabled 1: Enabled		
	2	Signalfehler	R/W	bool	0: Disabled 1: Enabled		
Service Function (Data Storage = no)							
0x7F		Indication Setting	R/W	unit8	0: Normal Indication 1: Locator Indication	0	
Device Access Locks (Data Storage = yes)							
0x0C		Data Storage Lock (Bit1)	R/W	bool	0: false (Data Storage activated) 1: true (Data Storage locked)	0	
Device Status Information (Data Storage = no)							
0x24		Device Status	R	unit8	0: Device is OK 2: Out of specification	0	
0x25		Detailed Device Status	R	unit 8 [9]	Active Events, see IO-Link 1.1-Specification		
Operation Information (Data Storage = no)							
0xE0		Operating Hours	R	unit32	0: 0x3FFFFFFF Resolution 0,25h		0,25h
User Specific Information (Data Storage = yes)							
0x18		Application Specific Tag	R/W	char [32]	Always a step ahead		
0xC0		User Tag	R/W	char [32]	LPS 4.0 Series		
Device Characteristics (Data Storage = no)							
0xE8	1	Position Range	R	unit16	LPS 4.0 80: 0...960		
	2	Resolution	R	unit16	50 µm		
Process Data (Data Storage = no)							
0x28		Process Data Values	R	unit16	See Process Data Structure		
Observation (Data Storage = no)							
0xEC	1	Measured Value	R	unit16	LPS 4.0 80: 0...960		1/20 mm
	2	Signal Quality	R	unit8	0: Insufficient 1: Acceptable 2: Good 3: Excellent		
	3	Switching Signal 1	R	unit8	0: Inactive 1: Active		
	4	Switching Signal 2	R	unit8	0: Inactive 1: Active		
	5	Switching Signal 3	R	unit8	0: Inactive 1: Active		

Note: At parameter „0xEC“ it is only possible to read the complete parameter. Accessing of subindexes is not possible here.

Error Codes

In case of a fault, the sensor transmits the error codes detailed in the following table. The error code consists of 2 bytes. The higher value byte, here 0x80, represents the IO-Link device as the emitter. The lower value byte represents the actual fault.

Error	Error code	Comment
Device application error	0x8000	Device application error, the required service is not operated by the sensor.
Index unavailable	0x8011	R/W access to unavailable parameter index.
Unavailable subindex	0x8012	R/W access to unavailable parameter subindex.
Service temporarily unavailable	0x8020	Write/read access to parameter limited by the device status is not possible.
Service temporarily unavailable—device control panel	0x8022	Write/read access to parameter limited by window control access to the sensor is not possible.
Access denied	0x8023	Write attempt to read-only address.
Invalid value range, parameter	0x8030	For all R/W parameters outside of the valid value range.
Parameter value too large	0x8031	For all R/W parameters above the valid value range.
Parameter value too small	0x8032	For all R/W parameters beneath the valid value range.
Parameter length is too large	0x8033	Too much data has been transmitted for the parameter (more bytes).
Parameter length is too small	0x8034	Too little data has been transmitted for the parameter (too few bytes).
Application not ready	0x8082	Device application error, the required service is not operated by the sensor.

Event Data

The sensor is capable of transmitting events that occur:

Event	Instance	Type	Mode	Event Qualifier	Event Code	Description
Signal faults	APP	Warning	Appear/ Disappear	0xE4/0xA4	0x8D40	Target is too far from the sensor.
No measured value	APP	Warning	Appear/ Disappear	0xE4/0xA4	0x8D41	No target or no position detection possible.

Maintenance, service

The LPS 4.0 usually works without maintenance.

Any way the function should be tested in regular intervals when testing the machine tool.

The following tests need to be carried out:

- Check the relative position of the sensor to the cam of the cylinder.
- Check if all mounting bolts are tightened correctly and check the cam of the cylinder.
- Check the switch ring.
- Check that the sensing surface has no physical damage.
- Check that there is no contamination of the sensor.

LPS 4.0 analog

The LPS 4.0 sensor is factory set, so that the full measuring range results in a proportional signal of 0-10 Volt or 4-20 mA.

In case the sensor detects a non logical position or is out of its measuring range, it will give a 0 Volt or 0 mA output signal.

As the SPS can not identify if the 0-signal is a 0 mm signal or an error, the sensor should be adjusted mechanically so that the position "0" is out of the mechanical measuring/stroke range of the cam /switch ring of the cylinder.

Troubleshooting

Fault	Cause		Remedy
„Status" LED does not light up	**A**	The power supply is switched off.	Check whether there is a reason why the power supply is switched off (installation or maintenance work, etc.). Switch on the power supply if appropriate.
	B	The plug is not connected to the connector on the sensor.	Connect the plug to the sensor and tighten the cap nut by hand.
	C	Wiring fault in the splitter or switch cabinet.	Check the wiring carefully and repair any wiring faults.
	D	Supply cable to the sensor is damaged.	Replace the damaged cable.
No IO-Link connection to device	**A**	The C/Q communication port on the sensor is not connected to the IO-Link master	Make sure that the C/Q communication port is connected to the IO-Link master.
	B	No power supply	Check whether there is a reason for the absence of the power supply (installation or maintenance work, etc.). Switch on the power supply.
Target does not get detected	**A**	Sensor is too far away from the item to be detected	Check the mounting and, if necessary, adjust the sensor to the correct distance.

Connecting Cable

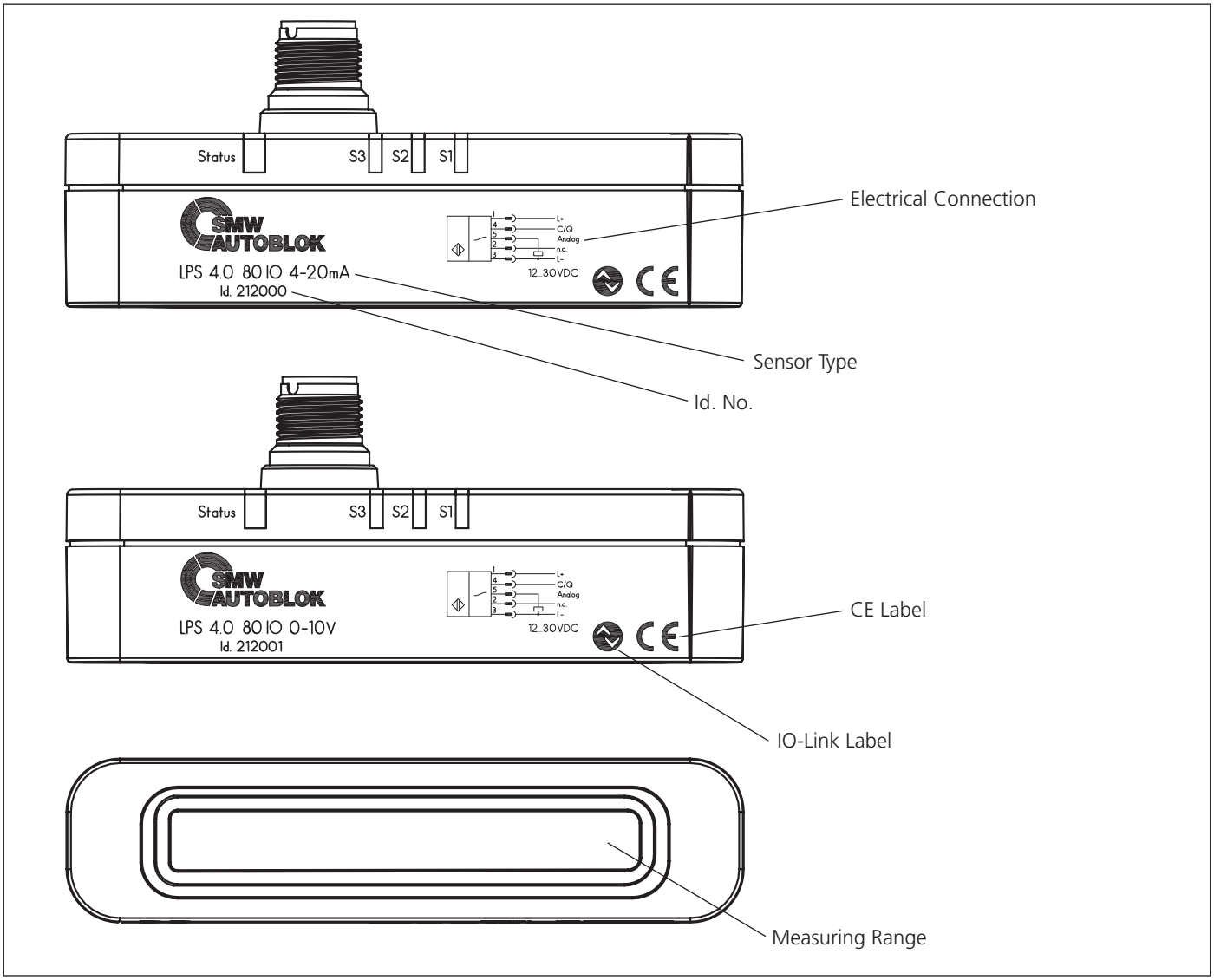
Connection cables and matching connectors are not included in the delivery package.

They can be ordered from (special length up to 20m on request).
The wire cross section min. 0.34 mm².

Description (Connecting Cable for LPS 4.0)	SMW-ID-No.
Connecting Cable 5m straight 5m Length, 5-pin M12x1 connector, straight	208244
Connecting Cable 5m angled 5m Length, 5-pin M12x1 connector, angled	208247
Connecting Cable 10m straight 10m Length, 5-pin M12x1 connector, straight	208245
Connecting Cable 10m angled 10m Length, 5-pin M12x1 connector, angled	208248
Connecting Cable 15m straight 15m Length, 5-pin M12x1 connector, straight	208246
Connecting Cable 15m angled 15m Length, 5-pin M12x1 connector, angled	208249

Typeplate / Contact

For questions on the product and place an order, please indicate the type marked on the label of the sensor type specification and part number.



Contact:

SMW-AUTOBLOK Spannsysteme GmbH
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Notes

12 month warranty

Product: Linear Position Sensor

SMW-AUTOBLOK guaranties the proper function of the sensor, if use and storage are in accordance with the technical instructions of this manual.

In case the sensor does not perform properly, a repair or exchange is done, after inspecting the circumstances.

In case of a production error the sensor is repaired free of charge within the warranty period.

The warranty period is 12 month.

In order to claim warranty, the sensor must be returned in the original packaging.

The return shipment must be accompanied by a detailed trouble description.

Otherwise the manufacturer reserves the right to void any warranty claims.

Empfangsbestätigung für die Betriebsanleitung
Confirmation of receipt of the instruction manual

Hiermit bestätigt die vom Betreiber/ Anwender beauftragte Person

Herr / Frau

den Erhalt der Betriebsanleitung sowie deren Inhalte, insbesondere das Kapitel Sicherheit gelesen und verstanden zu haben.

Bediener | Datum

Betreiber / Sachbeauftragter | Datum

This certifies the operator assigned by the operating company

Mr. / Mrs.

hereby confirms to have received the instruction manual and to have read and understood the content, especially the chapters concerning safety.

Operator | Date

Operating Company / Authorised person | Date

Id.Nr. / Id. No. :

Artikelbez. / Item :

Gewicht / Weight :

Seriennr. / Serialno. :

Bitte ausgefüllt zurückschicken an:

Please send the filled in form back to:

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Mail: sales@smw-autoblok.de

Id. No.	:	
Item	:	
Weight	:	
Serialno.	:	

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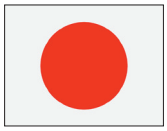

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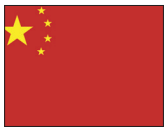

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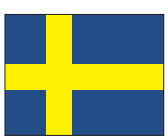

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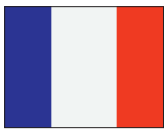

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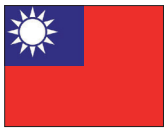

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