

Linear Position Sensor for SMW-Autoblok hydraulic clamping cylinders	LPS-XS io Link Linear Position Sensor Measuring range 16mm	LPS-X Linear Position Sensor Measuring range 50mm	LPS-X io Link Linear Position Sensor Measuring range 50mm	LPS-NT® Linear Position Sensor Measuring range 100mm
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### Application/customer benefits

- Monitoring of the entire cylinder stroke/safe controlling of any clamping position
- No repositioning of prox. switches when changing chucks

### Technical features

- Inductive measuring principle (no magnet!)
- No interference from magnetic fields
- Measuring range LPS-XS = 16 mm/LPS-X = 50 mm/LPS-NT = 100 mm
- Compact design/simple installation
- Analog or binary output

### Additional Features LPS-X io Link

- Bidirectional data transfer
- Status monitoring
- Process data monitoring

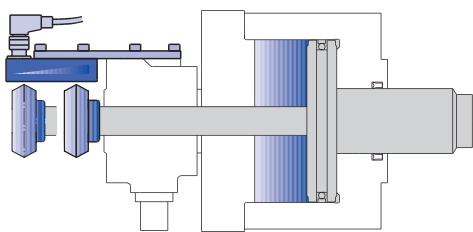
### Standard equipment

LPS without cable

### Ordering example

LPS-XA 50-V with analog output 0-10 V  
Id. No. 197376  
Cable with straight plug 5 m  
Id. No. 195897

### LPS-X mounted on cylinder SIN



### LPS-NT® 100 + LPS-XS mounted on cylinder with 2 independent pistons



### LPS-X mounted on cylinder VNK



### Technical data

SMW-AUTOBLOK Type	LPS-XSA 16-V	LPS-XA 50-V	LPS-NTA 100-V	LPS-XA 50-A	LPS-NTA 100-A	LPS-X 50 io*	LPS-XS 16 io*
Id. No.	198825	197376	195921	199563	196381	198888	198895
Measuring range	16 mm	50 mm	100 mm	50 mm	100 mm	50 mm	16 mm
Signal	0-10 V / 4-20mA	0-10 V	0-10 V	4-20 mA	4-20 mA	io Link V1.0/V1.1	io Link V1.0/V1.1
Supply	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Reproducibility	0.05 mm	0.1 mm	0.2 mm	0.1 mm	0.2 mm	0.1 mm	0.05 mm
Linearity	0.10 mm	0.2 mm	0.4 mm	0.2 mm	0.4 mm	0.1 mm	0.1 mm
Temperature drift	0.15 mm	0.25 mm	0.25 mm	0.25 mm	0.25 mm	0.25	0.15
Operating temperature	0 - 70°	0 - 70°	0 - 70°	0 - 70°	0 - 70°	0 - 70°	0 - 70°
Protection class	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
Case dimensions L x W x H	40 x 20 x 16	71.5 x 40 x 16	125 x 40 x 16	71.5 x 40 x 16	125 x 40 x 16	71.5 x 40 x 16	40 x 20 x 16

Cables for LPS-XSA 16-V	Length	Id. No.
Sensor connection cable straight plug M 9 x 0,5 5-pin	5 m	198982
	10 m	198983
Sensor connection cable elbow plug M 9 x 0,5 5-pin	5 m	198984
	10 m	198985

Cables for LPS-XA 50-V, LPS-NTA 100-V, LPS-NTA 100-A, LPS-X io Link*	Length	Id. No.
Sensor connection cable straight plug M 12 x 1 5-pin	5 m	195896
	10 m	195898
Sensor connection cable elbow plug M 12 x 1 5-pin	5 m	195897
	10 m	195899

\* For detailed information about io Link please ask for separate data sheet.

Binary Interface Box for LPS-X/LPS-NT	
	Id. No. 198067
Supply	24 V DC ± 10 %/ 120 mA
Signal	binary, 10 bits, pnp open collector
Resolution	0.05 mm = 1 digit for 50 mm 0.1 mm = 1 digit for 100 mm
Case dimensions L x W x H	125 x 80 x 58 mm
Protection class	IP 64
Operating temperature	0 – 70 °C
Connections	16-pin Zylind R, style A, code N
Weight	650 g