

Linear Position Sensor	LPS-XS	LPS-X	LPS-X	LPS-NT®
for SMW-Autoblok hydr. clamping cylinders	io Link Linear Position Sensor Measuring range 16 mm	Linear Position Sensor Measuring range 50 mm	io Link Linear Position Sensor Measuring range 50 mm	Linear Position Sensor Measuring range 100 mm



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

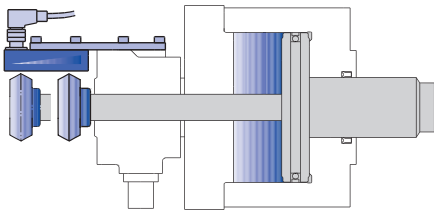
LPS-XA 50-V with analog output 0-10 V

Id. No. 197376

Cable with straight plug 5 m

Id. No. 195897

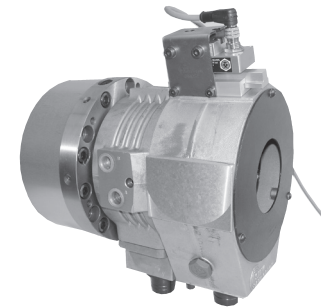
LPS-X mounted on cylinder SIN



LPS-NT® 100 + LPS-XS mounted on ZHVD-SZ 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-NTA100-A	LPS-X 50 io*	LPS-XS 16 io*
Id. No.	198825	197376	195921	199563	196381	198888	198899
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 8-pin	5 m	198982
	10 m	198983
	15 m	199643
Sensor connection cable elbow plug M 9 x 0.5 8-pin	5 m	198984
	10 m	198985
	15 m	198940

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
	15 m	198907
Sensor connection cable elbow plug M 12 x 1 5-pin	5 m	195897
	10 m	195899
	15 m	202320

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 Zylin R, style A, code N
Weight	650 g

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