DRAW WIRE SENSOR



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Series LX

Key-Features:

- Low cost series for use in dry environments
- Measurement ranges: 50 to 1250 mm
- Linearity up to ± 0.1 % of full scale
- Output signal: Potentiometer or optical Incremental-Encoder (TTL)
- Low weight: 85 g
- Thermoplastic body
- Compact size
- Wire rope: nylon jacketed stainless steel
- Easy installation



TECHNICAL DATA

Measurement range

Resolution

Extraction force

[mm]

[Pulses/mm] 1)

[N]

250

4.46

4.4

				LX-PA				LX-EP					
Measurement range N	1R	[mn	n]	50 to 1250 (see table below)			250 to 1250 (see table below)						
Linearity		[%]]	MR up to 120: ±1 MR up to 625: ±0.5 MR up to 1250: ±0.25			±0.1						
Repeatability		[%]]		:	±0.03				±0.015			
Resolution			d	epends on t	he signal qı	uality of the	reference	voltage	up to 4.46 pulses/mm (see table below) 1)				
Sensor element					Pote	ntiometer			Incremental Encoder				
Output signal				01 k	Ω ±15 % (o _l	ptional: 5 kg	Ω or 10 kΩ)		A/B signal, TTL compatible (not differential)				
Power supply		[VD	C]		n	nax. 30			5 ±0.25				
Current consumption		[m/	A]			-			max. 30				
Connection					3 solde	er terminals	5		5 square pins				
Protection class								IP4	0				
Operating temperatur	e	[°C]		-2	5+75			-40+75				
Shock resistance				50 g, max. 0.1 ms									
Vibration resistance				15 g, max. 0.1 ms				5 g, max. 0.1 ms					
Life cycle				MR up to 120: 1,000,000 full stroke cycles MR up to 625: 250,000 full stroke cycles MR up to 1250: 125,000 full stroke cycles				MR up to 625: 2,000,000 full stroke cycles MR up to 1250: 1,000,000 full stroke cycles					
Housing				thermo				thermor	plastic				
Draw wire				nylon jacketed stainless steel, Ø 0.46 mm / optional: stainless steel, Ø 0.41 mm									
Weight		[g]		85									
Model LX-PA			2	2,8	3,8	4,7	10	15	20	25	30	40	50
Measurement range	[mm]		50	70	96	120	250	380	500	625	750	1000	1250
Output	[mV/V/mn	n] ²⁾	18.5	13.4	10.1	8.1	3.5	2.5	1.9	1.5	1.3	1	0.8
Extraction force	[N]		4.4	3.9	3.1	2.2	4.4	3.9	3.1	2.2	3.9	3.1	2.2
Model LX-EP			10	15	20	25	30	40	50				

380

3.25

3.9

625

1.98

2.2

750

3.25

3.9

1000

2.45

3.1

500

2.45

3.1

1250

1.98

2.2

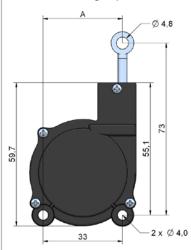
¹⁾ Resolution may be increased by a factor of four with interface electronics capable of quadrature times 4 counting mode.

²⁾ At 1 VDC excitation voltage. To calculate nominal output voltage in application, multiply nominal output shown by excitation voltage of application.

TECHNICAL DRAWING

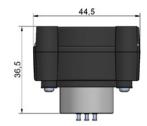
LX-PA

Measurement range up to 120 mm



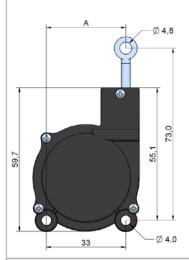






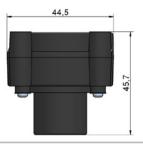
LX-PA

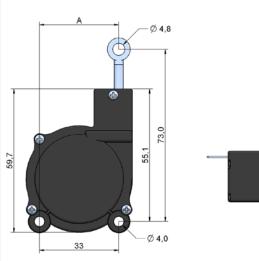
Measurement range from 250 mm



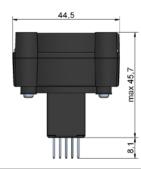


Measurement range [mm]	A [mm]
250	25.7
380 / 750	29
500 / 1000	33
625 / 1250	37.1



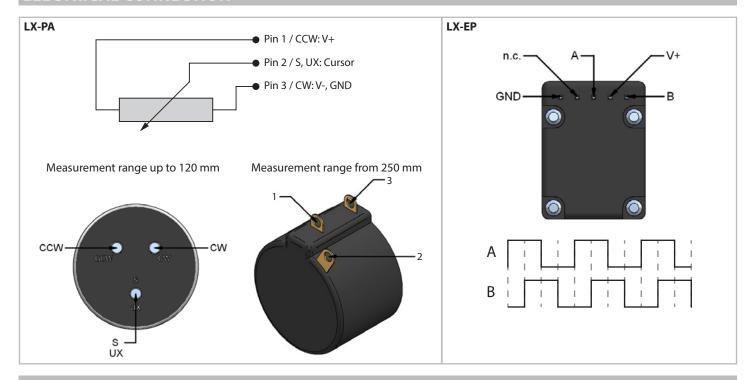


Measurement range [mm]	A [mm]
250	25.7
380 / 750	29
500 / 1000	33
625 / 1250	37.1

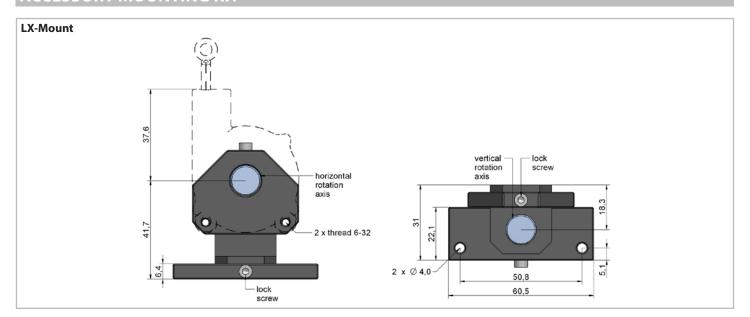




ELECTRICAL CONNECTION



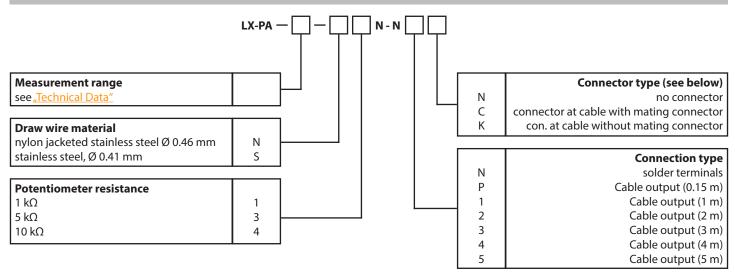
ACCESSORY MOUNTING KIT



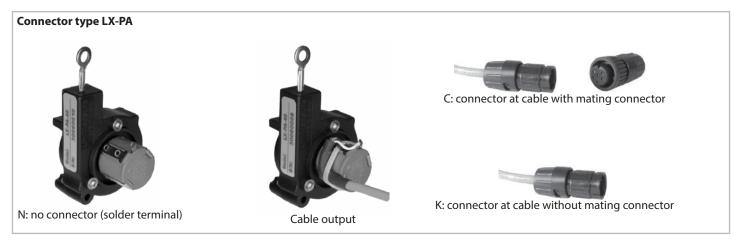
WARNING NOTICES

- Don't let the rope snap back. If the rope is retracted freely, this may lead to injuries (whiplash effect) and the device may be damaged. Caution when unhooking and retracting the rope into the sensor.
- Never exceed the specified measurement range when extracting the rope!
- Do not try to open the device. The stored energy of the spring drive may lead to injuries when being mishandled.
- Do not touch the rope when operating the sensor.
- Avoid guiding the rope over edges or corners. Use a deflection pulley instead.
- Do not operate the sensor if the rope is buckled or damaged. A ripping of the rope may lead to injuries or a damaging of the sensor.

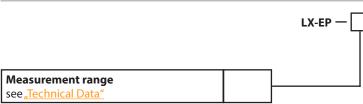
ORDER CODE LX-PA

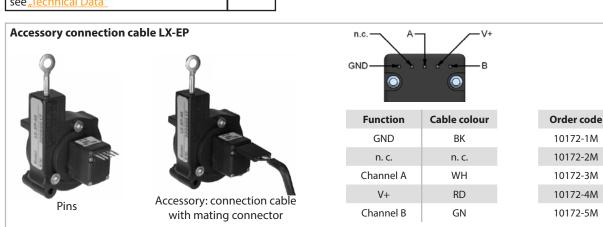


The Standard versions LX-PA-...-N1N-NNN are usually in stock. Different versions have a typical delivery time of 3 weeks.



ORDER CODE LX-EP







Cable length

1 m

2 m

3 m

4 m

5 m

ACCESSORIES

Mounting kit		
LX-Mount	Sensor mounting, adjustable in 2 dimensions	

Connection cable for LX-EP					
10172-1M	1 m, with mating connector				
10172-2M	2 m, with mating connector				
10172-3M	3 m, with mating connector				
10172-4M	4 m, with mating connector				
10172-5M	5 m, with mating connector				

Digital displays for sensors with analog output LX-PA, 2 channel

WAY-AX-S touch screen, supply: 18...30 VDC
WAY-AX-S-AC touch screen, supply: 115...230 VAC

For more information and options please refer to the WAY-AX data sheet.

Digital displa	avs for sensors	with incremental	output LX-EP, 2 channel
Digital alspit	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		output Ent Ent Entaimen

WAY-DXM-S touch screen, supply: 18...30 VDC
WAY-DXM-S-AC touch screen, supply: 115...230 VAC

For more information and options please refer to the $\underline{\text{WAY-DXM}}$ data sheet.

Subject to change without prior notice.



销售电话:022-23853726 邮箱: info@dnwdz.com

传真:022-23853727 联系电话: 18522007848(同微信) 网址: www.dnwdz.com 13212175878(同微信)