

MODEL LCX - DRAW WIRE SOLUTIONS



FEATURES

Fast and easy encoder mounting

Wire length options from 1 to 42.5 meters

Linearity \pm 0.05 % of full range (with encoder)

Optional high corrosion protection

Temperature range -20° C to 85° C

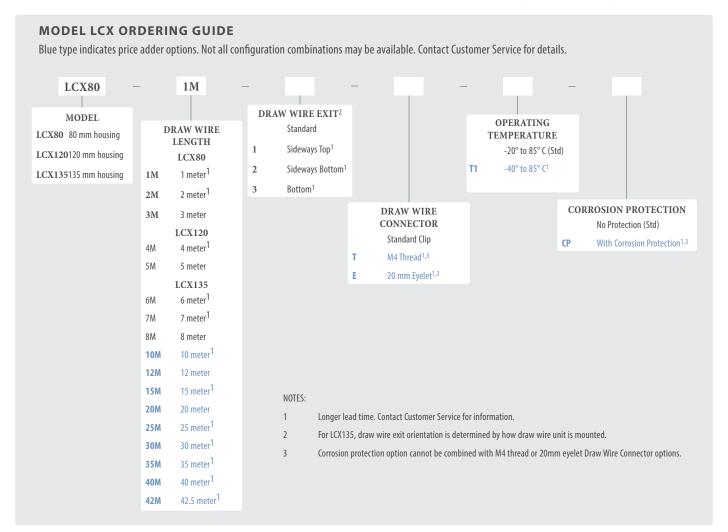
Optional low temperature range of -40° C

Available in wire lengths from one meter to 42.5 meters, the LCX draw wire is compatible with the following 58 mm shafted encoders with clamping flange: absolute encoder Model A58SE, which offers EtherCAT® and PROFINET® communication protocols; Model 758, a high-performance incremental encoder; and the Model 858S, a stainless steel incremental encoder. Choose the right encoder and wire length for your application.

COMMON APPLICATIONS

Robotics, Extrusion Presses, Textile Machinery, Control Gate Positioning, Theater Stages, Elevators, Gantries, Boom Cranes, Fork Lift Booms

The LCX Series of Draw Wire Solutions is manufactured for EPC/BEPC by our German technology partner.

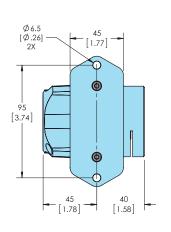


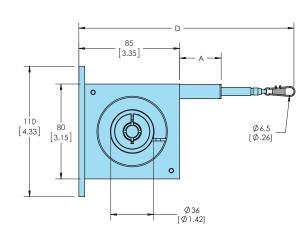


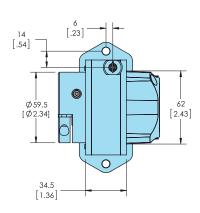
MODEL LCX80

MODEL LCX80 SPECIFICATIONS Encoder Requirements.......Clamping flange diameter 36 mm; Shaft diameter 10 mm; Shaft length 20 mm .. ± 0.05% (with encoder output) Linearity. Sheave Circumference......200 mm Extraction Force $\mathrm{F}_{min}\,$4.2 N to 5 N Velocity V_{max}...8 m/s Acceleration amax... ..8 m/sV Weight700 g to 900 g, depending on the measurement range Housing...Aluminum, anodized, spring case PA6 Wire Material.. ..Flexible stainless steel wire Corrosion ProtectionStandard housing, V4A wire material, stainless steel bearings, and HARTCOAT® coating on wire drum ..-20° to 85° C or low temp option of -40° C Operating Temp...







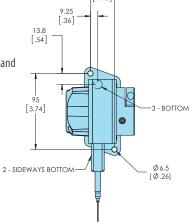


MEASUREMENT RANGE [MM]	A	D
1000 / 2000 [39.37/78.74]	21 [.83]	≈ 166 [6.54]
3000 [118.11]	35 [1.38]	≈ 180 [7.09]

Alternate mounting for standard wire exit and sideways top wire exit with mounting plate removed.

[7.25 [.68]

Mounting for bottom wire exit and sideways bottom exit.

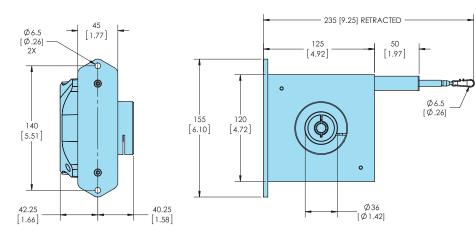


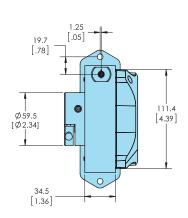


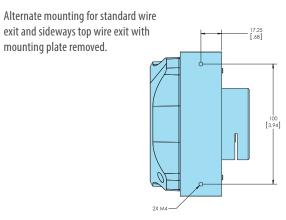
MODEL LCX120

MODEL LCX120 SPECIFICATIONS Encoder Requirements.......Clamping flange diameter 36 mm; Shaft diameter 10 mm; Shaft length 20 mm Measurement Range......4 (4000 mm), 5 (5000 mm) ... ± 0.05% (with encoder output) Linearity. Sheave Circumference......317.68 mm Extraction Force $\mathrm{F}_{min}\,.......8\,\mathrm{N}$ Extraction Force F_{max}4 m = 11 N; 5 m = 11.6 N8 m/s Velocity V_{max}...8 m/s² Acceleration amax..1300 g to 1600 g, depending on the measurement range Housing...Aluminum, anodized, spring case PA6 Wire Material... ...Flexible stainless steel wire Corrosion ProtectionStandard housing, V4A wire material, stainless steel bearings, and HARTCOAT® coating on wire drum ..-20 $^{\circ}$ to 85 $^{\circ}$ C or low temp option of -40 $^{\circ}$ to 85 $^{\circ}$ C Operating Temp...









Mounting for bottom wire exit and sideways bottom wire exit.

13.75
[5.4]

140
[5.51]

2 - SIDEWAYS BOTTOM

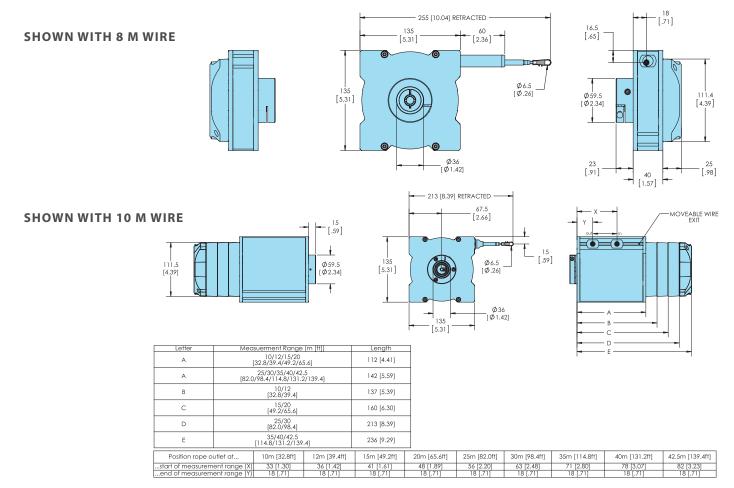
96.5
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MODEL LCX135

	MODEL LCX135 SPECIFICATIONS
Encoder Requiremen	tsClamping flange diameter 36 mm; Shaft diameter 10 mm; Shaft length 20 mm
Measurement Range	
Linearity	± 0.05% (with encoder output)
Sheave Circumference	e6 - 8 m, 357.14 mm, 10 m to 42.5 m, 333.33 mm
Extraction Force F _{mi}	n4.2 N to 5 N
	25 m = 11.4 N; 30 m = 9.6 N; 35 m = 11.6 N; 40 - 42.5 m = 9 N
Velocity V _{max}	6 - 8 m wire = $8m/s$; 10 - 15 m = 6 m/s; 20 - 42.5 m = 5 m/s
Weight	3200 g to 5000 g, depending on the measurement range
Housing	Aluminum, anodized, spring case PA6
Wire Material	Flexible stainless steel wire
Corrosion Protection	Standard housing, V4A wire material, stainless steel bearings, and HARTCOAT® coating on wire drum
Operating Temp	20° to 85° C or low temp option of -40° to 85° C



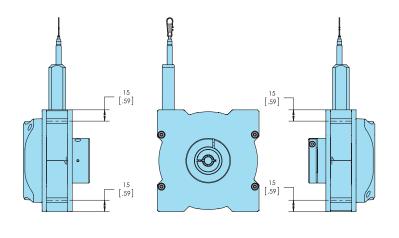


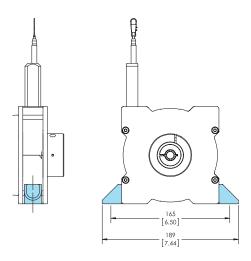


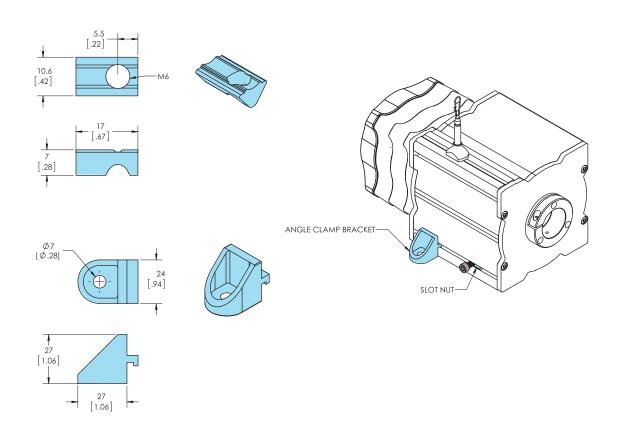
MODEL LCX135 CONTINUED

POSITIONS OF GROOVES FOR MOUNTING

ANGLE CLAMP BRACKETS SPACING









WIRE EXIT LOCATIONS FOR LCX80 AND LCX120



DRAW WIRE CONNECTORS

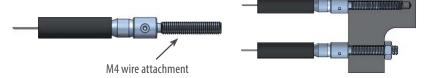
STANDARD

Wire attached with clip.



M4 THREAD

Pivoted wire attached by screw thread M4. Length: 22 mm. Ideal for attachment to through holes or threaded holes M4.



20 MM EYELET

The end of the wire is equipped with an eyelet instead of a clip. Inside diameter: 20 mm





MODEL LCX ACCESSORIES

DEFLECTION PULLEY

The wire must be extracted from the draw wire unit in line with the exit axis. The maximum deviation off the exit axis is 3°. A deflection pulley allows a change in the direction of the wire. Several pulleys may be used. The wire clip must not be guided over the deflection pulley.

Material foot: Anodized aluminium

Material wire wheel: POM-C

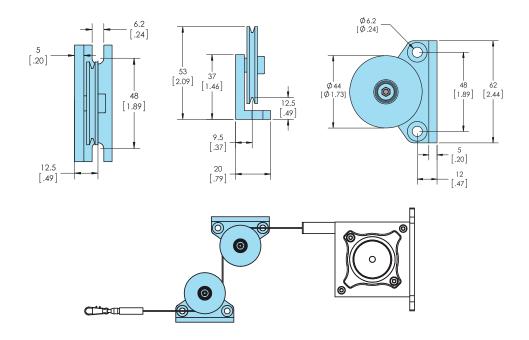
Mounting: By 2 hexagon socket or countersunk screws M6, vertical or horizontal mounting is possible.

Ball bearings: With special low temperature grease and RS-sealing.

Temperature: -40° to 80° C

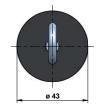


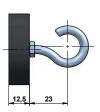
EPC stock #097001



MAGNETIC CLAMP

Use the magnetic clamp to quickly attach the wire to metallic objects without any assembly time. A rubber coating provides gentle contact (e. g. on painted surfaces) and prevents slipping due to vibration. The magnet consists of a neodymium core for an increased magnetic force of 260 N. The hook makes it easy to attach the wire clip.





EPC stock #097002