



### Model Number

**SL3005-X1/GS130**

Cable pull

### Features

- **Direct length and position measurement**
- **High accuracy of measurement**
- **Simple installation**
- **Sturdy construction**
- **Long lifetime**

### Description

The combination of a multiturn absolute rotary encoder and a cable pull is ideal for positioning applications where easy installation and low costs are required.

Pepperl+Fuchs cable pulls incorporate a high precision measuring drum with extremely robust spring return, around which a highly flexible stainless steel is wound. The rotary movement of the measuring drum is transferred to the flanged multi-turn absolute rotary encoder via a play-free coupling.

## Technical data

### General specifications

Measuring range	... mm
Travel speed	max. 4 m/s
Acceleration	max. 70 m/s <sup>2</sup>
Drum perimeter	334.1 mm
Linearity error	typ. 0.1 % / 0.5 %
Resolution	334.1 mm / steps per revolution of mounted encoder

### Ambient conditions

Ambient temperature	-30 ... 70 °C (-22 ... 158 °F)
Shock resistance	25 g

### Mechanical specifications

Shaft dimensions Ø x l	6 mm x 10 mm , servo flange
Rope diameter	1.35 mm
Tension force at rope	10 ... 21 N
Degree of protection	IP65

### Material

Housing	anodized aluminum
Spring housing	PPO/PS
Rope	Stainless steel 1.4401/316

Mass	2500 g
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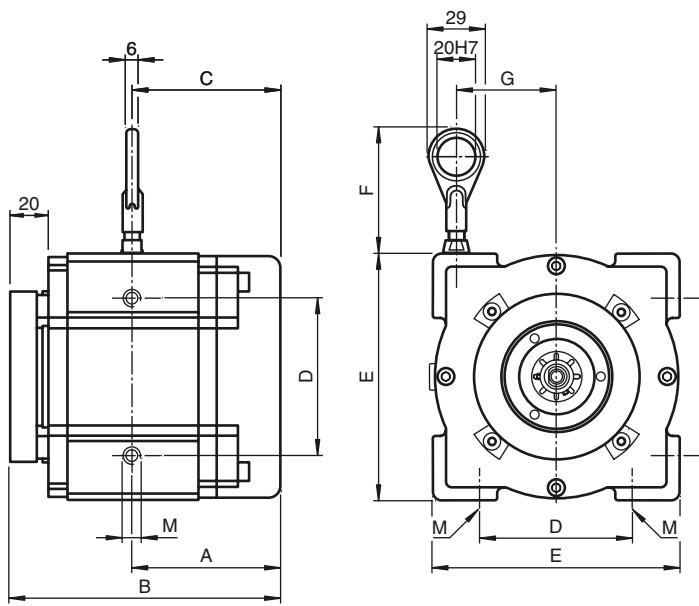
### Dimensions

A	77.2 mm
B	141.3 mm
C	77.2 mm
D	80 mm
E	130 mm
F	approx. 60 mm
G	52 mm
M	M8 x 8
Life span	10 <sup>6</sup> Cycles

### General information

Scope of delivery	Cable pull , Coupling
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Dimensions



Order Code

S	L	3	0			-			/	G	S		
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Options (can be combined)

- /F with rubber gaiter
- /DF with double spring assembly
- /HC with hard coating

Housing width / housing height [mm]

- 80 80 mm x 80 mm (up to 3 m cable length)
- 130 130 mm x 130 mm (5 m ... 30 m cable length)
- 190 190 mm x 190 mm (from 40 m cable length)

Encoder shaft / encoder flange

- X1 solid shaft  $\varnothing 6$  mm x 10 mm, synchro flange
- X2 solid shaft  $\varnothing 10$  mm x 20 mm, clamping flange

Cable length

- 01 1 m
- 02 2 m
- 03 3 m
- 05 5 m
- 10 10 m
- 15 15 m
- 20 20 m
- 25 25 m
- 30 30 m
- 40 40 m
- 50 50 m

Example:

SL3001-X1/GS80/F/DF/HC

Cable pull, series 30