LS 629

Incremental linear encoder for measuring steps of 10 µm and 5 µm (0.0005 in. and 0.0002 in.)

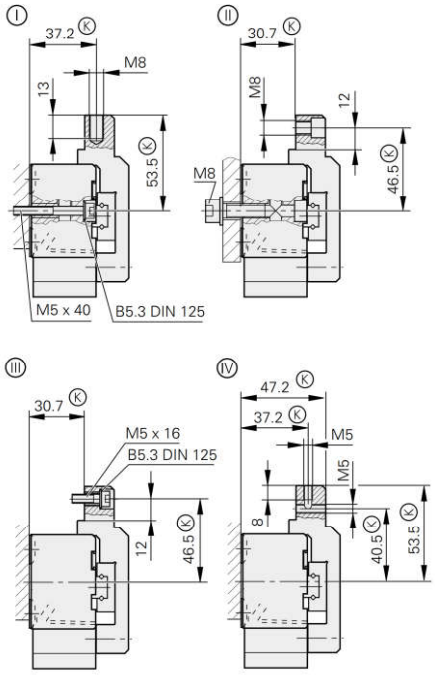
- **With integrated guide**
- **Large mounting tolerances and connection over coupling rod**

Specifications		LS 629
Measuring standard Grating period		Glass scale with DIADUR grating 20 µm
Accuracy grade		± 10 µm (± 0.0004 in.)
Measuring length (ML) in mm inches		170, 220, 270, 320, 370, 420, 6.7, 8.6, 10.6, 12.6, 14.5, 16.5, 470, 520, 620, 720, 770, 820, 18.5, 20.5, 24.4, 28, 30, 32, 920 36
Reference marks	**LS 629** **LS 629C**	Selectable every 50 mm by magnet Standard setting: 1 reference mark at midpoint Distance-coded for ascertaining the absolute position value after max. 20 mm traverse
Max. traversing speed		60 m/min (2362 ipm)
Vibration (55 to 2000 Hz) **Shock** (11 ms)		30 m/s^2 (IEC 60068-2-6) 200 m/s^2 (IEC 60068-2-27)
Required moving force		≤ 10 N
Protection (IEC 60529)		IP 53 when installed as per instructions IP 64 with compressed air
Operating temperature		0 to 50 °C (32 to 122 °F)
Weight		0.8 kg + 2.5 kg/m measuring length
Power supply		5 V ± 5 %/< 170 mA (without load)
Output signals/signal period		⊓⊔ TTL/20 µm
Electrical connection Cable length to subsequent electronics		Sep. adapter cable (1 m/3 m/6 m) with and without armor (see *Electrical Connection*) 50 m (164 ft) max.

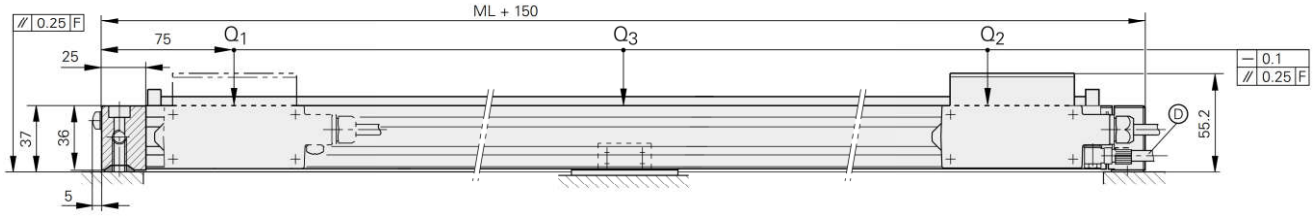
Dimensions

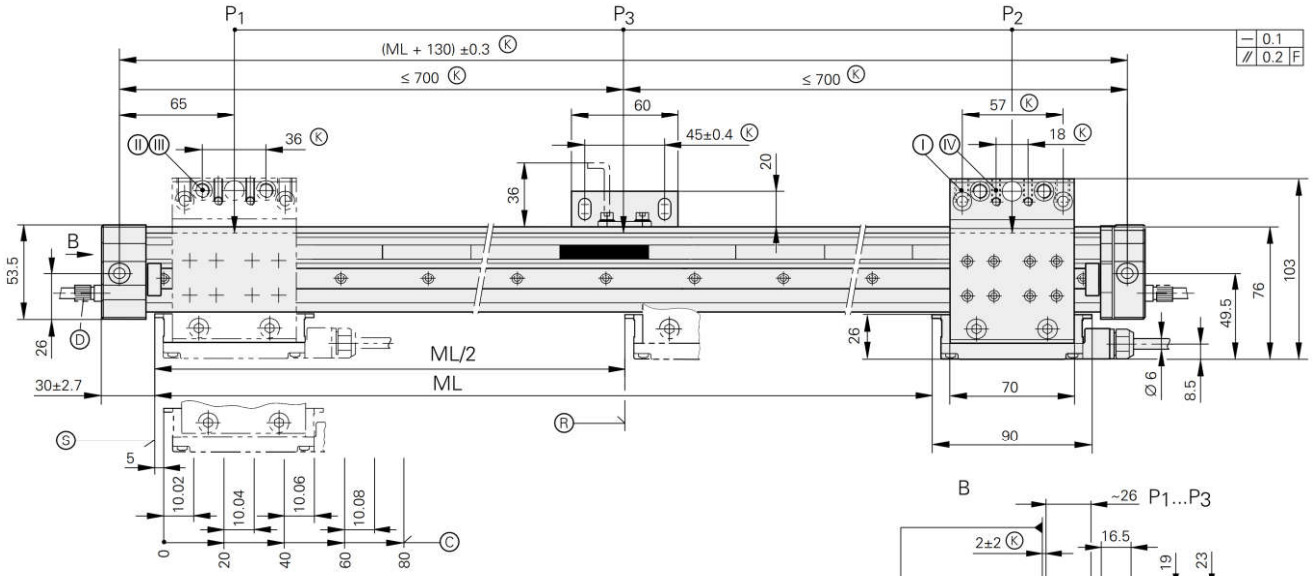
in mm

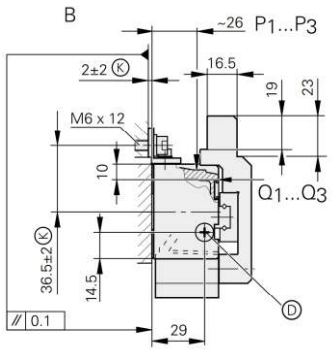
DIN ISO 8015
ISO 2768 - m H



Ⓘ, Ⓘ,
Ⓘ, Ⓘ = Mounting options
F = Machine guideway
P, Q = Gauging points for alignment
Ⓚ = Required mating dimensions
Ⓓ = Compressed air inlet
Ⓝ = Reference mark position LS 629
Ⓒ = Reference mark position LS 629C
Ⓢ = Beginning of measuring length (ML)







Mounting with coupling rod