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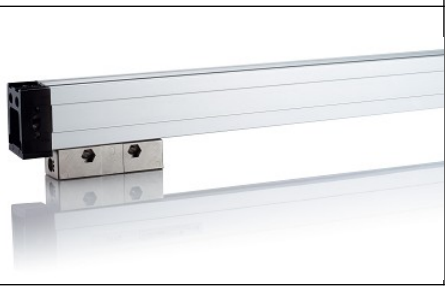
DRO & FEEDBACK PRODUCT DATA SHEET

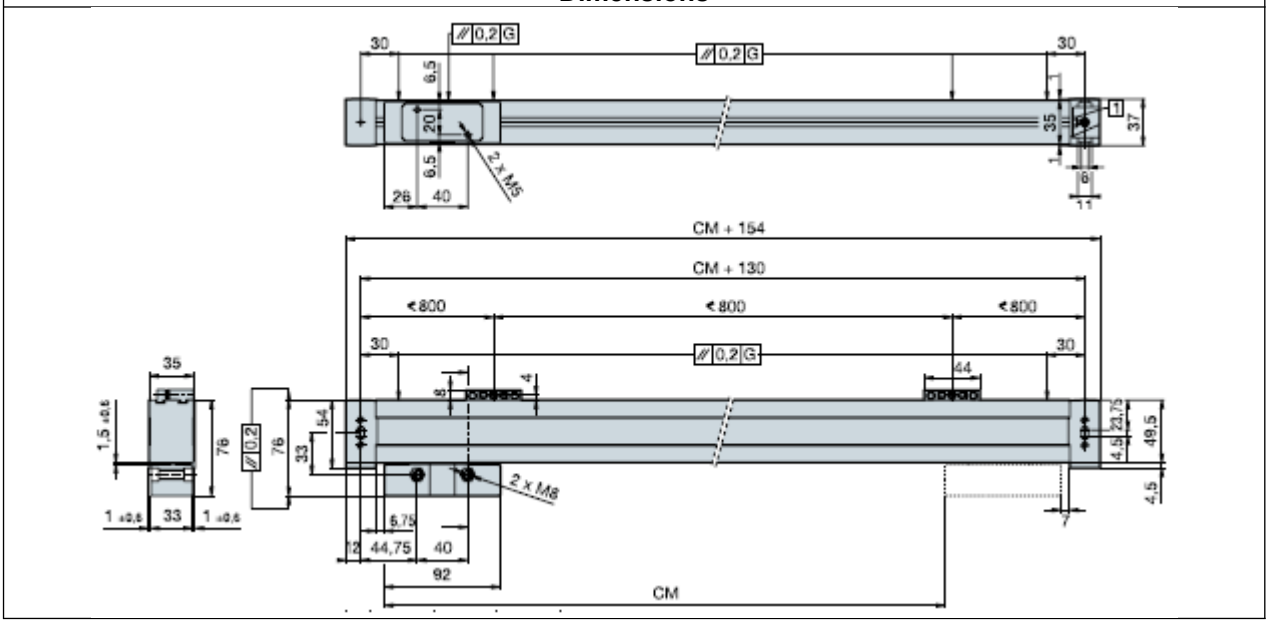
Linear encoder: CT

- Accuracy grades ±10 μm/m.
- For limited mounting spaces.
- TTL output signals.
- Mounting with 2 x (M5x15) bolts (scale) and 2 x (M6x35) bolts (reader head).
- With detachable cable connector.

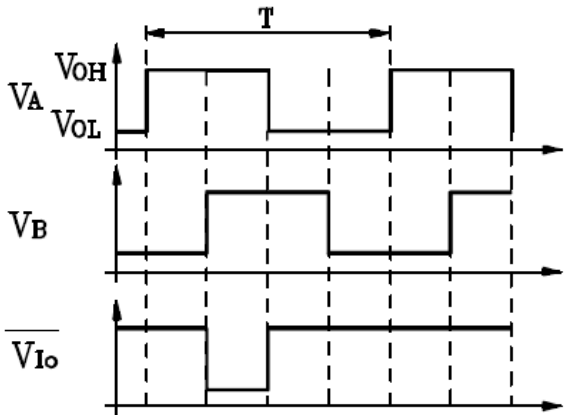


Characteristics	
Measuring standard	Optical scale with one 20μm incremental track
Signals	Incremental: TTL
Incremental signal period	20μm
System resolution	5μm
Accuracy	10μm/m.
Measuring lengths (mm)	220, 270, 320, 370, 420, 470, 520, 620, 720, 770, 820, 920, 1020, 1140, 1240, 1340, 1440, 1540, 1640, 1740, 1840, 1940, 2040, 2240, 2440, 2640, 2840 & 3040

Dimensions



General Specification			
Maximum speed	▪ 60m/min	Maximum cable length	20m
Weight	1.20kg + 2.5kg/meter	IP rating standard	53
Maximum vibration (55 - 2000Hz)	3g	IP rating with air supply	64
		Moving force	< 5N
Operating temperature	0ºC to 50ºC	Storage temperature	-20ºC to 70ºC

Incremental non-differential TTL signals	Specification	
	Signals	A, B & /Io
	V_H	≥ 3.5V
	V_L	≤0.4V
	DC offset	2.5V ± 0.5V
	Signal period	20 µm
	Limit frequency	50Khz
	Reference mark	90º synchronized with A and B
	Power supply V	5V ± 5%, 100mA (without load)

Order information				
Scale	**Type of ref mark**	**Type of signal**	**Measuring length (mm)**	**Accuracy**
C	▪ Blank: Incremental, one every 50mm. ▪ O: Distance-coded marks.	▪ T: 5µm TTL non differential	220….3040	▪ Blank: 10µm

Examples	
Order code	**Description**
CT-42	CT scale, 5µm of resolution with 420mm measuring length and one reference mark every 50mm.
COT-92	CT scale, 5µm of resolution with 920mm measuring length and distance-coded marks.

* Notes: Each field in the order code is separated by a hyphen. For a full list of available models, contact to Fagor Automation. Other measuring lengths may be available on request.