

**DRO & FEEDBACK PRODUCT DATA SHEET**

**Linear encoder: MMKT**

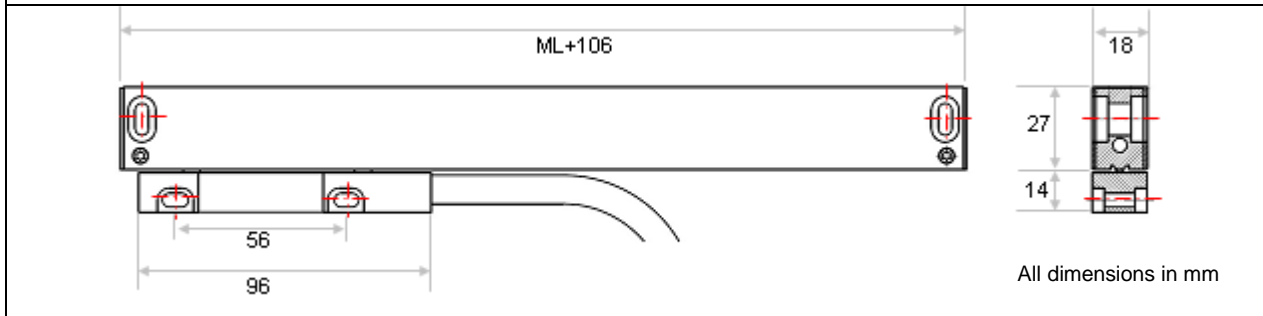
- Reduced size profile for limited space applications
- TTL output signals - 5µm
- Cable in reader head (3 meter attached cable)
- Accuracy grade ±10µm
- Measuring lengths up to 520mm



**Characteristics**

Measuring standard	Optical scale with one 20µm incremental track
Signals	TTL
Incremental signal period	20µm
System resolution	5µm.
Accuracy	±10µm/m
Measuring lengths (mm)	120, 140, 170, 220, 270, 320, 370, 420, 470 & 520mm

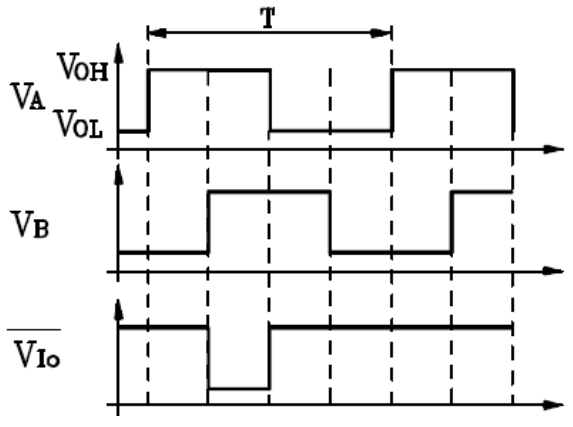
**Dimensions**



**General Specification**

Maximum speed	60m/min	Maximum cable length	20m
Technology	Optical (IR)	System resolution	5µm
Reference marks	Synchronised	Repeatability (inc. backlash)	<1µm (0.4µm av.)
Weight	0.58kg + 0.6kg/m	IP rating standard	53
Maximum vibration (55 - 2000Hz)	3g	IP rating with air supply	64
		Moving force	< 5N
Operating temperature	0°C to 50°C	Storage temperature	-20°C to 70°C

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Incremental non-differential TTL signals	Specification	
	Signals	A, B & /Io
	V <sub>H</sub>	≥ 3.5V
	V <sub>L</sub>	≤ 0.4V
	DC offset	2.5V ± 0.5V
	Signal period	20 μm
	Limit frequency	50Khz
	Reference mark	90° 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
MMK	▪ Blank: Incremental, one every 50mm.	▪ T: 5μm TTL	120...520	▪ Blank: 10μm
Examples				
Order code	Description			
MMKT-42	MMKT scale with 420mm measuring length and one reference mark every 50mm.			

\* 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.