Incremental encoders

Resolution up to 0.001 mm

FNC FLM2 Series

Features

- **Resolution up to 0.001 mm**
- **Robust mechanical and electrical construction**
- **Protection to IP67**
- **Periodic reference signal**

Technical data-electrical ratings

Voltage supply	4.75VDC to 30VDC 4.75VDC to 5.5VDC
Protection	Output short circuit protection. Reverse polarity protection (except 5V version)
Consumption w/o load	≤60 mA (24 VDC)
Resolution (steps/turn)	see part number selection
Reference signal	Zero pulse, width 90°, 180°
Output frequency	<300 kHz
Output signals	90° shifted A and B, Z+ inverted
Output circuit	Linedriver / RS422 Push-pull short-circuit proof
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4
Approval	CE

Technical data-mechanical ratings

Sensor/tape reading distance	0.1...1 mm
Pole length	2 mm
Protection DIN EN 60529	IP67
Travel speed	3 m/s
Materials	Housing: Zinc die cast
Operating temperature	-20...+85°C
Storage temperature	-30°C up to +90°C
Weight approx.	700 g

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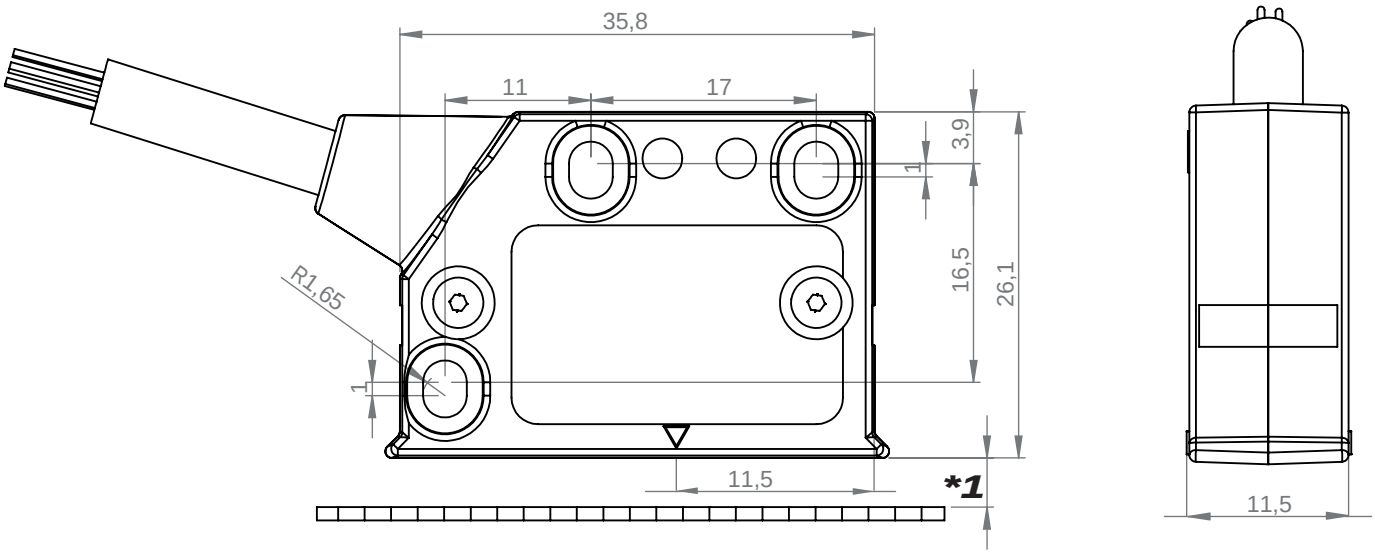
Mechanical Dimensions

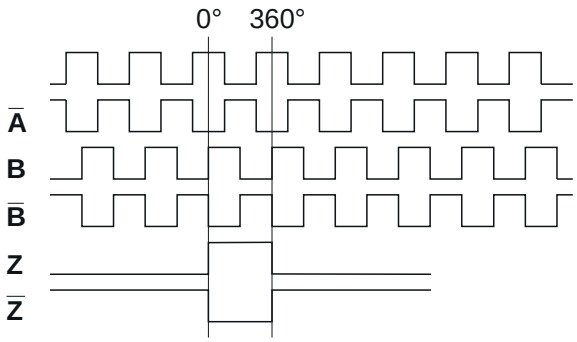


* Mounting gap between sensor head and magnetic band

Cable Connection

Function	Color	Renk	Farbe
+VB	Brown	Kahve	Braun
GND	White	Beyaz	Weiß
A	Green	Yeşil	Grün
A'	Red	Kırmızı	Rot
B	Yellow	Sarı	Gelb
B'	Pink	Pembe	Rosa
Z	Gray	Gri	Grau
Z'	Blue	Mavi	Blau
Shield	Black	Siyah	Schwarz

Pulse Diagram



Part Number

FNC FLM2 Series

Encoder Part Number