

# Incremental encoders

Resolution up to 0.0025 mm

## FNC FLM5 Series



### Features

- Resolution up to 0.0025 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

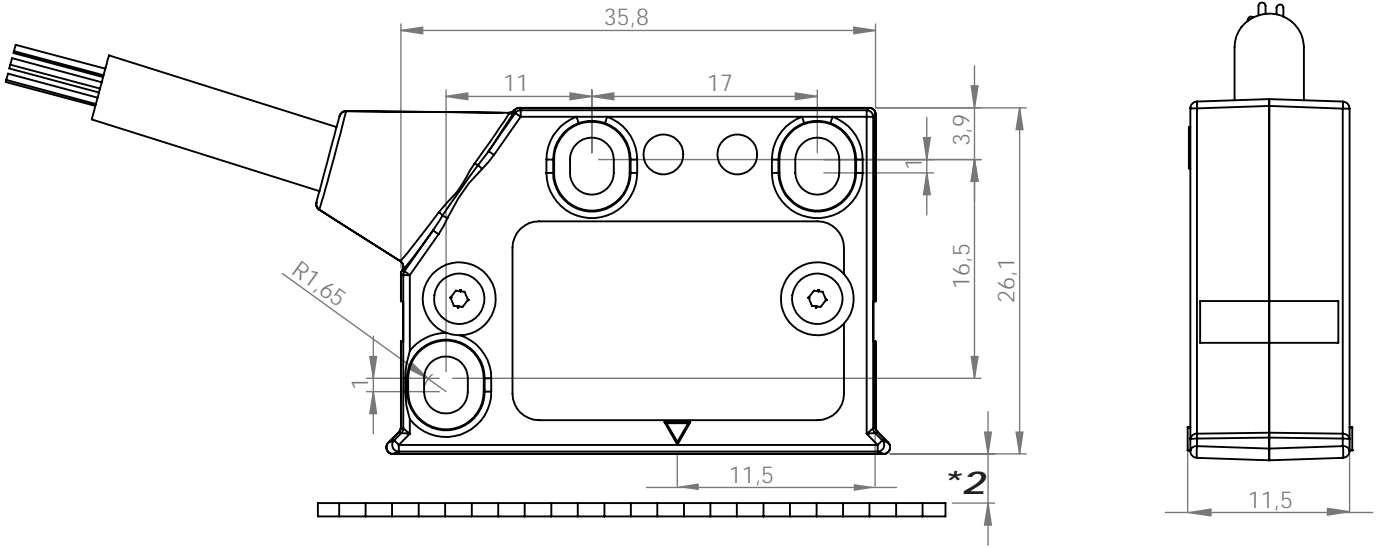
Sensor/tape reading distance	0.1...2 mm
Pole length	5 mm
Protection DIN EN 60529	IP67
Travel speed	3 m/s
Materials	Housing: Zinc die cast
Operating temperature	-20...+85°C
Storage temperature	-30°C up to +90°C
Weight approx.	700 g

# Incremental encoders

Mechanical Dimensions  
Cable Wiring, Pulse Diagram








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### Mechanical Dimensions

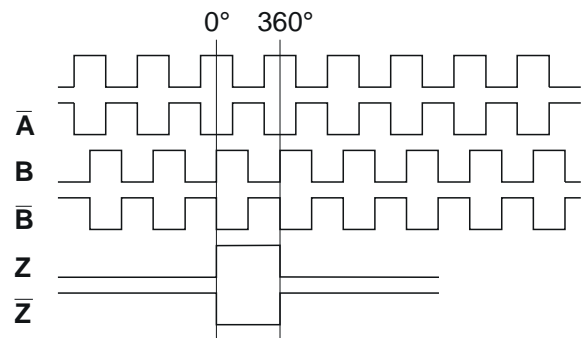


\* Mounting gap between sensor head and magnetic band

### 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



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Part Number



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### Encoder Part Number

