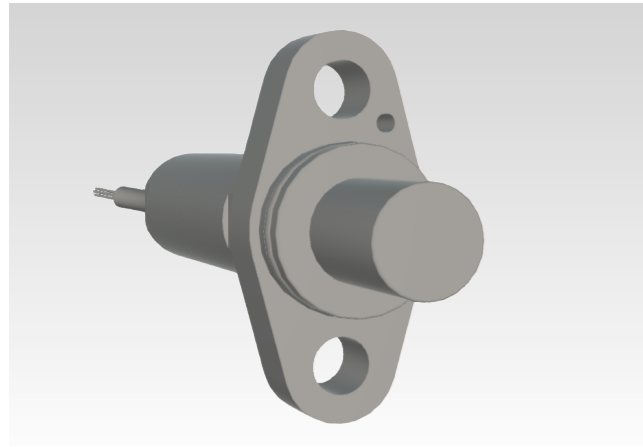


## FNC Speed Sensor



### Features

- Detecting speed and direction of rotation of ferromagnetic gearwheels with high resolution
- Wide frequency range
- Wide temperature range

### Technical data - electrical ratings

Voltage supply	9VDC to 30VDC
Consumption w/o load	max. 20 mA
Frequency range	0...20 kHz
Push-pull outputs	I <sub>max</sub> = ±30 mA
Output voltage HI UHI	> U <sub>supply</sub> - 1,5V
Output voltage LO ULO	< 1,5V
EMC compliant	EN 50121-3-2
Approval	CE

### Cable Wiring

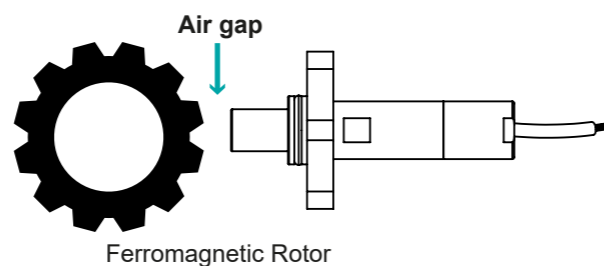
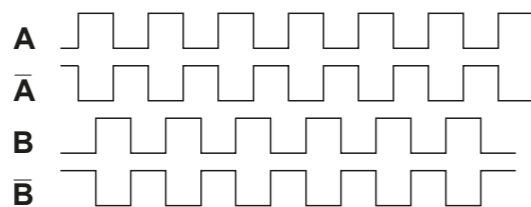
Function	Color	Renk	Explanation
+VB	Brown	Kahve	Supply Voltage
GND	White	Beyaz	Ground
A	Green	Yeşil	A Channel
A'	Red	Kırmızı	A Inverted Channel
B	Yellow	Sarı	B Channel
B'	Pink	Pembe	B Inverted Channel

\*\*Standard cable (hologen free, d13mm, 6x0.6mm<sup>2</sup>, AWG20, armoured cable -40 to +125°C)

### Technical data - mechanical design

Air gap between sensor housing and pole wheel for involute gear	Module1- 0,5...0,7 mm Module1,5 - 0,5...1,3 mm Module ≥2 - 0,5...1,5 mm
Operating temperature	-40...+125 °C
Weight approx.	150 g
Protection class	Sensor head :IP68
Shock & vibration	EN 61373 Cat.3

### Pulse Diagram

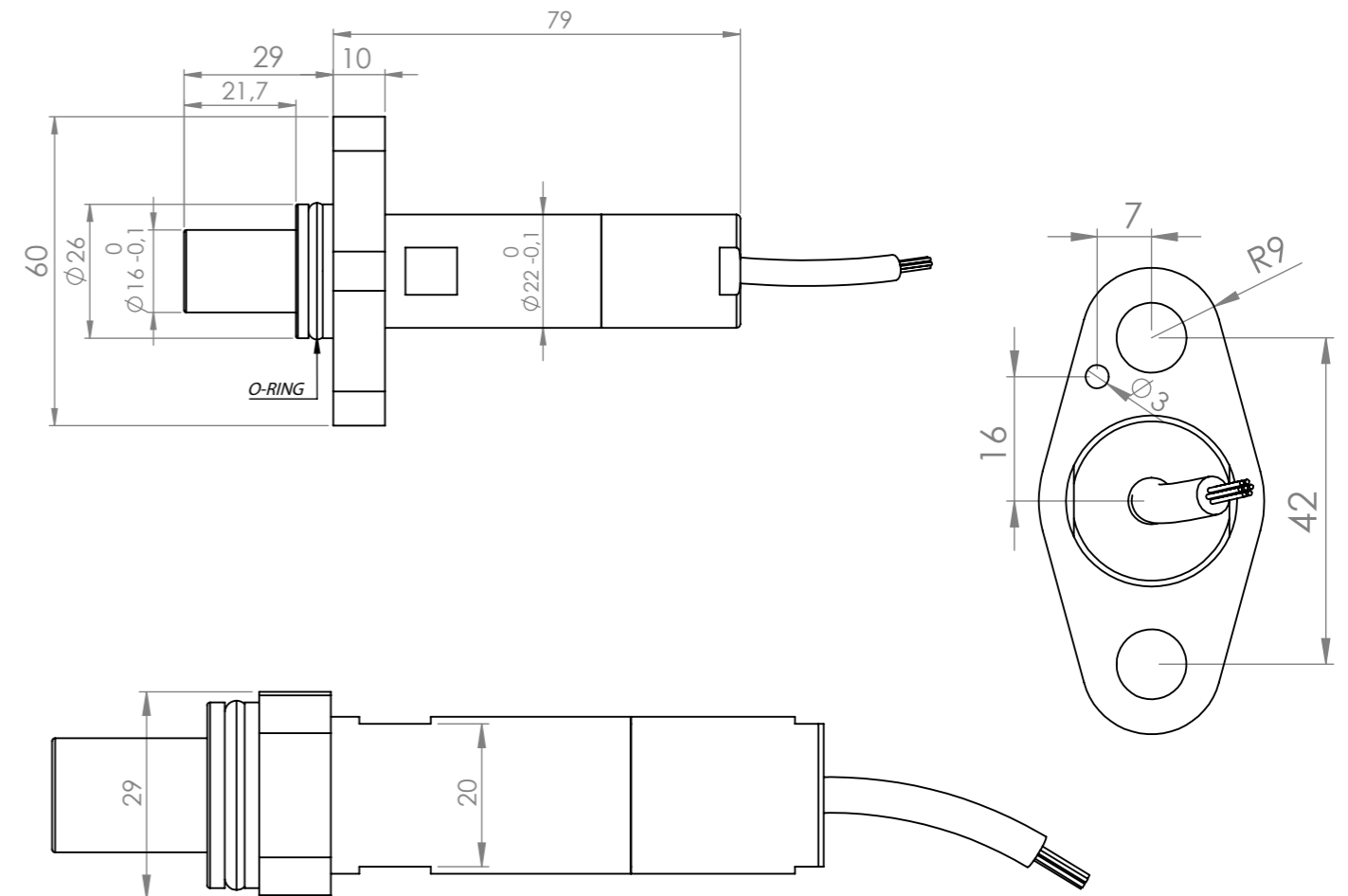


### Signal Output

2 phase shifted square wave signals, minimum edge shift with an involute gear wheel: minimal phase shift of 20° between A & B signals.

## FNC Speed Sensor

### Mechanical Dimensions



### Encoder Part Number

**FNC SS 16 42 M1.0 2G - A05**

<b>Sensor</b> SS : Speed Sensor	<b>Connection</b> A05 : 5 cm cable length
<b>Sensor head diameter</b> 16 : 16 mm	<b>Electronic type</b> 2G : Push pull 2 channels (A , B), galvanic separation between channels 2N : Push pull 2 channels (A , B), NO galvanic separation between channels 4G : Push pull 2 channels (A , B) & inverted (A' , B'), galvanic separation between channels 4N : Push pull 2 channels (A , B) & inverted (A' , B'), NO galvanic separation between channels
<b>Mounting hole diameter</b> 42 : 42 mm	<b>Target module</b> M1.0 : 1 module M1.5 : 1.5 module M2.0 : 2 module