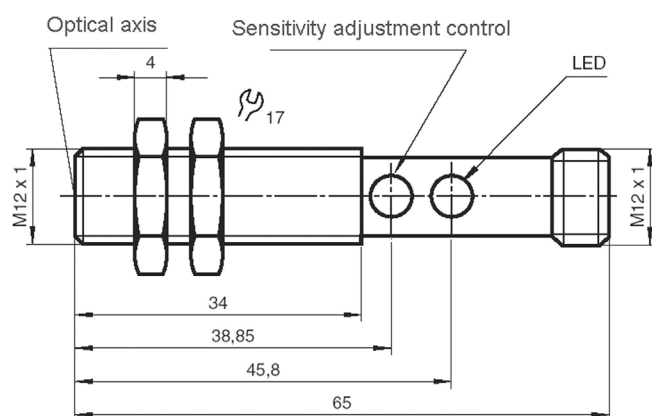


Rotational Speed Sensor FUA 9192



- Optical probe for measurements of rotational speed, designed as retroreflective photoelectric sensor for photoelectric detection of rotational speeds.
- For evaluation of the pulses, the tachometer probe is equipped with a specific frequency meter module that calculates the number of revolutions per minute from the time period between two pulses. A stable read-out is achieved by averaging over a minimum of 500 ms.
- Easy application: A reflective adhesive tape is attached to the moving part and the probe is aligned with it. For function control purposes a yellow signal lamp at the rear side of the probe will be on when the reflective adhesive tape is recognised.
- To increase the operation reliability the sensitivity can be adjusted through a potentiometer.

Technical Data:

Measuring range:	8 to 30000rpm (maximum)	Optics:	2-lens system PC
Bright-up pulse time:	> 1ms	Permissible shock load:	$b \leq 30g$, $T \leq 1ms$
Resolution:	1rpm	Permissible vibrational load:	$f \leq 55Hz$, $a \leq 1mm$
Accuracy:	up to 15000rpm: $\pm 0.02\%$ of m.v. ± 1 digit up to 30000rpm: $\pm 0.05\%$ of m.v. ± 1 digit	No-load current:	$\leq 20mA$
Detection range:	20 to 200mm (depending on the reflector)	Supply voltage:	> 8.5VDC via instrument, mains adapter recommended
Sensitivity:	adjustable with potentiometers	Connection:	Device connector M12x1 including socket M12x1, angled, with 1.5 meters cable and ALMEMO® connector
Detectable object:	opaque or reflector	Material:	housing: brass, nickel plated, lens opening: PMMA
Distance hysteresis:	$\leq 10\%$	Dimensions:	diameter: M12 x 1mm, length: 55mm
Indication of switching status:	LED yellow	Weight:	15g
Type of light:	red light 660nm	Meets standards:	EN 60 947-5-2
Limit for foreign light:	sun light: $\leq 20000lux$ halogen light: $\leq 5000lux$		
Ambient/storage temperature:	-25/-40°C to +55/+70°C		
Protection system:	IP 67 (accord. to EN 60529)		

Accessories

	Order no.
Extension cable, 1 meter long	ZA9060VK1
Extension cable, 2 meters long	ZA9060VK2

Types

	Order no.
For rotational speeds up to 30000rpm max., incl. 5 reflective adhesive tapes Connecting cable 1.5m long with ALMEMO® connector	FUA9192

DAkKS / DKD or factory calibration KU90xx rotational speed for digital sensor (see chapter Calibration certificates).
DAkKS calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.