

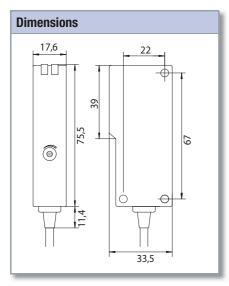
HySense RS 110



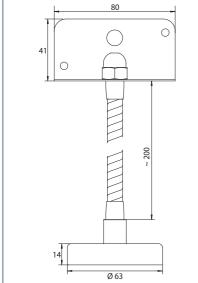
Rotational speed measurement for many applications

The rotational speed sensor RS 110 uses pulsating red light (LED) reflected by a special tag at the rotating target. By using a polarisation filter, only the reflected light impulses are evaluated, disturbing reflections (e.g. unevenness of the surface, bright metal parts, keyways or high-contrast areas) are not detected. This achieves a reliable rotational speed measurement from distances between 0 and 500 mm. 25 reflection tags are included. Enter the number of used reflection tags as calibration value into the measuring instrument.





Dimensions magnetic holder (option)



Applications

- Recording the hydraulic efficiency of pumps
- Rotational speed measurement of fans of hydraulic cooling devices

Qualities		
Measuring principle	auto-collimation	
Light source	power LED with visible red light	
Supply voltage Ub	10 30 VDC	
Ripple	< 5 Vss	
Current consumption	< 30 mA	
Output current max.	< 100 mA	
Response time	500 µs	
Switching sequence	1,000 Hz	
Range	0 500 mm	
Protection type	IP 67	
Signal repetition frequency	max. 500 Hz	
Output signal	frequency (rectangular signal) / 4 20 mA	
Electrical measuring connector	5 pole device connector, M16 x 0.75	
Environmental temperature	-40 +60 °C	
Storage temperature	-40 +75 °C	
Weight	141 g	

Pin assignment	RS 110 (frequency)	RS 110 (4 20 mA)
3 4 5 2 1	Pin 1 = signal +	Pin 1 = signal +
	Pin 2 = -Ub / GND	Pin 2 = signal - / GND
	Pin 3 = + Ub	Pin 3 = + Ub
	Pin 4 = free	Pin 4 = free
	Pin 5 = free	Pin 5 = free

Measuring range	Weight	Order number
	g	
Frequency	140	3130-02-01.00
4 20 mA	320	3130-06-01.00

For accessories see page 75