

HySense® RS 100

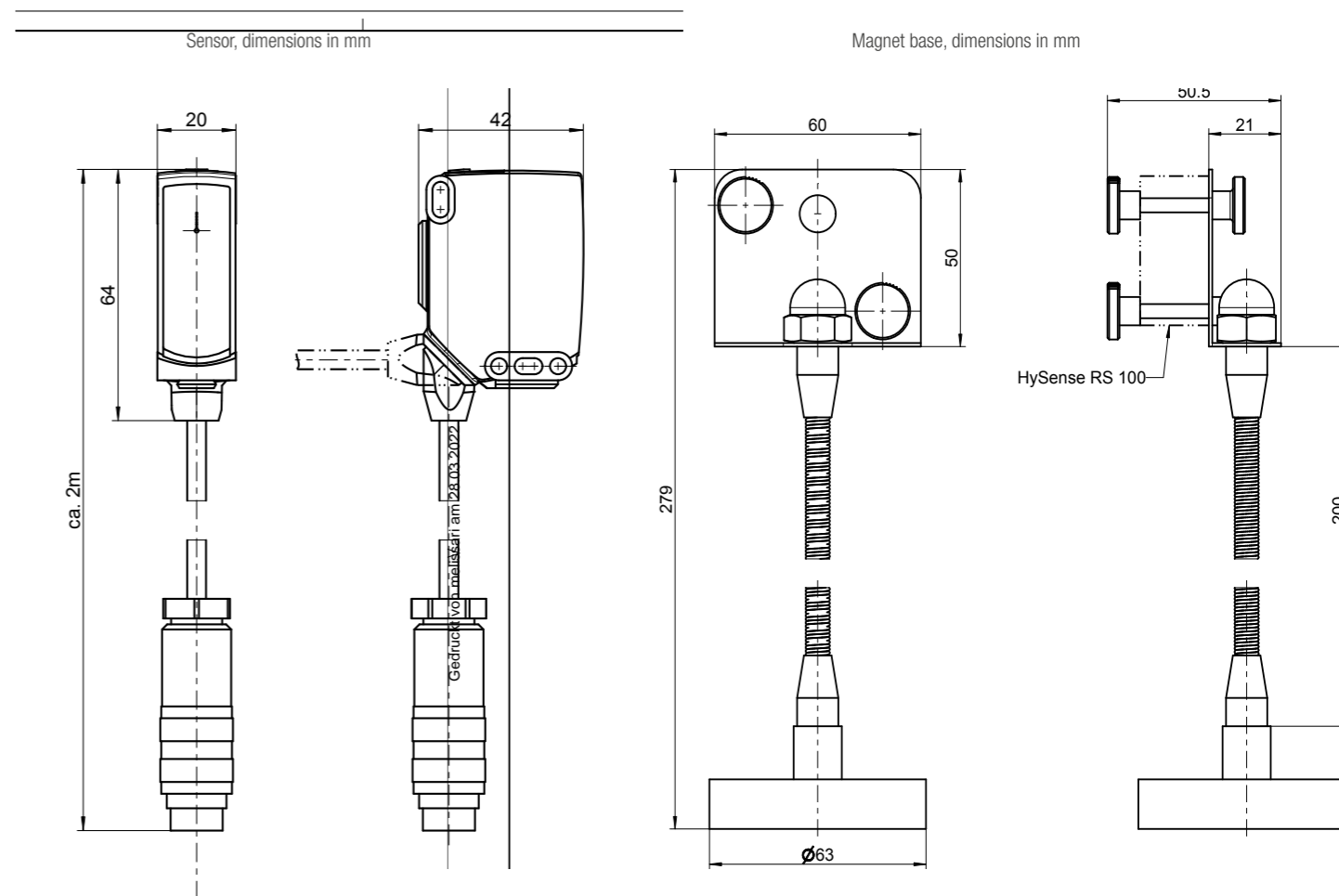
The **HySense® RS 110** is an optical speed sensor that uses reflective mark detection. This method makes it possible to obtain particularly accurate and reliable measurements, since the measured results are not affected or distorted by the rotor's material or shape. Moreover, the available mounting base ensures that the sensor can be installed on metal surfaces easily and quickly.

How it works

This sensor works with a pulsing red light (LED) that is reflected by a special mark on the rotating part. A polarizing filter makes sure that only reflected light pulses will be evaluated and that disruptive reflections (e.g., unevenness on the surface, shiny metal parts, keyways, and high-contrast areas) will not be detected.

Typical applications:

- | Determining the hydraulic efficiency of pumps
- | Speed measurements on fans for hydraulic cooling units



General characteristics	
Sensor principle	Autocollimation
Light source	Power LED with visible red light
Response time	500 µs
Range	0 ... 500 mm (standard reflectors)
Pulsing frequency	500 Hz / 30000 min-1
Signal repetition rate	Max. 500 Hz
Electrical connector	M16 x 0.75, 5-pin
Body material	Glass fiber reinforced
Ambient temperature	-40 ... 60 °C

Model	Output signal	Weight	Part No.
HySense® RS 100	Frequency / ISDS	140 g	3130-08-01.01
Magnetic base	-	-	3130-03-03.00
Reflective film (50 pieces)	-	-	8840-02-01.01