



# US.52

## DISTANCE MEASUREMENT SENSOR



- ✓ Ultrasonic sensor for distance measurement
- ✓ Measuring range from 120 to 1300 mm
- ✓ High resolution
- ✓ Maximum accuracy
- ✓ Detection of any kind of material

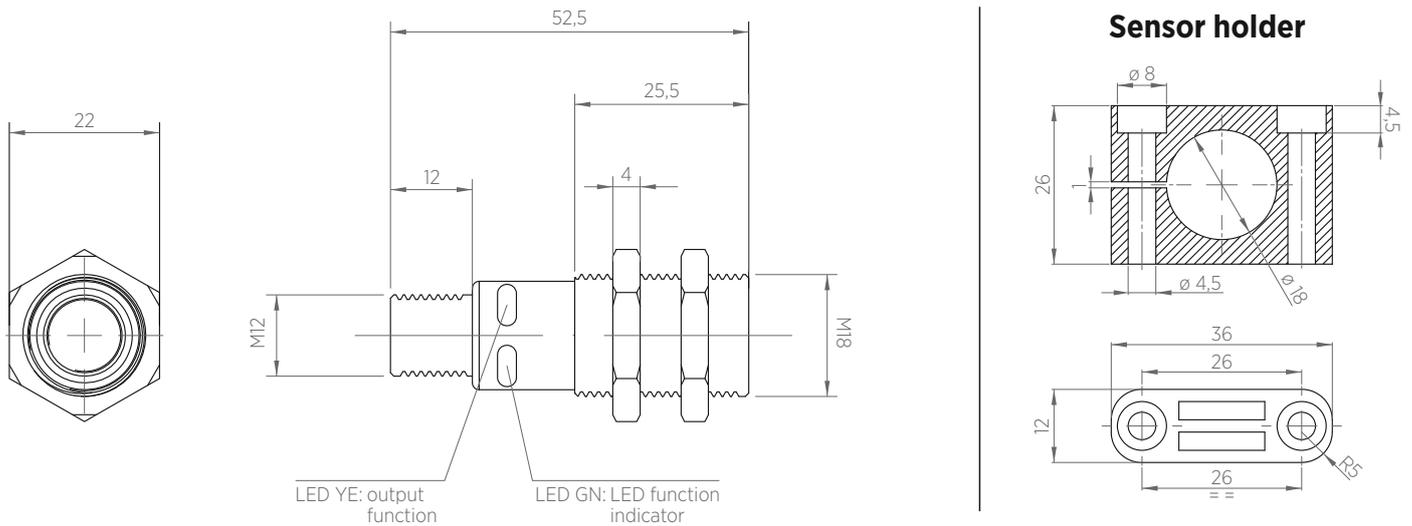
US.52 is a sensor for the distance measurement of an object without contact. The sensor is able to detect the distance of reels of any kind of material, color and transparenance.

Fog, dust and impurities in the working environment are not a problem for the detection.

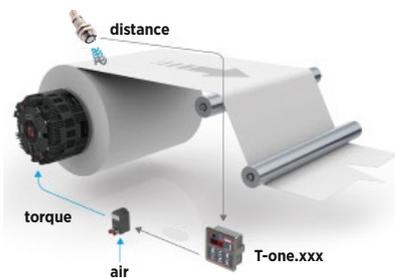
Thanks to the sensor high resolution and small blind spots, US.52 sensor guarantees the highest reliability and the highest precision.

To calculate precisely the reel diameter in order to detect the web tension, US.52 can be used both with Re tension controllers or other devices such as PLC.

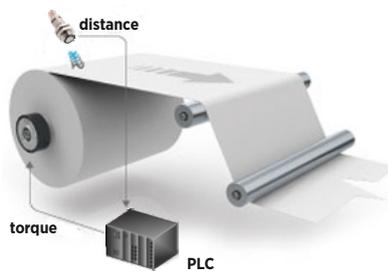
## TECHNICAL DRAWING



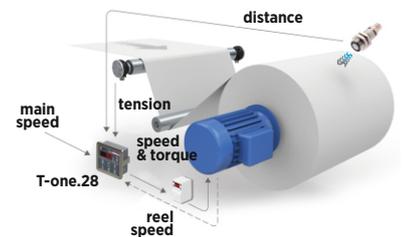
## APPLICATIONS



Torque regulation with pneumatic/electromagnetic brake and Re tension controller



Torque regulation with pneumatic/electromagnetic brake and PLC



Speed regulation with motor and Re tension controller

## TECHNICAL DATA

Power supply	15÷30 Vdc (24 Vdc)
Max power consumption	40 mA
Ultrasonic frequency	200 kHz
Measuring range	Min 120 mm /Max 1300 mm
Repeat accuracy	+/- 0,15% FS
Resolution	≤ 0,069 mm
Analog output 0÷10 Vdc	1 proportional to distance
Connection	Connctor M12x1
Polarity reversal protected	Yes
Working temperature	-25÷70°C
Temperature compensated	Yes
IP protection class	IP67
Material	Nickel-plated brass
Weight	45 g
Dimensions	52,5 x 22 x 22 mm
5 pin cable with shield connector	10 m

\*Data are subject to technical change without notice



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