



- ▶ Generates a 4mm wide light band of uniform intensity
- ▶ For the inline quality control on fast moving threads, wires or filaments
- ▶ Together with the dynamic MICROMote® amplifier V10H knots material defects or splicings can detected reliably
- ▶ Signal fluctuations from lateral oscillations of the objects are suspended
- ▶ Robust design and glass protected optics

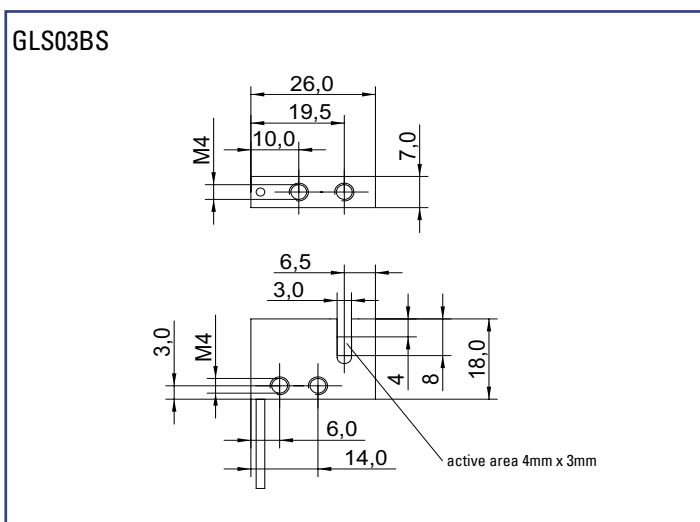


SPECIAL FORK SENSOR
for quality control on threads and wires

▶ TECHNICAL DATA

MODEL	GLS40BS
Fork width (mm)	3mm
Smallest object diameter	100µm
Measuring window	4mm
Light type	red 650nm
Housing material	aluminium, black anodized
Operating temperature	-10°C.. +55°C
Protection class	IP65
Supply connection	1m PUR cable with connector M8

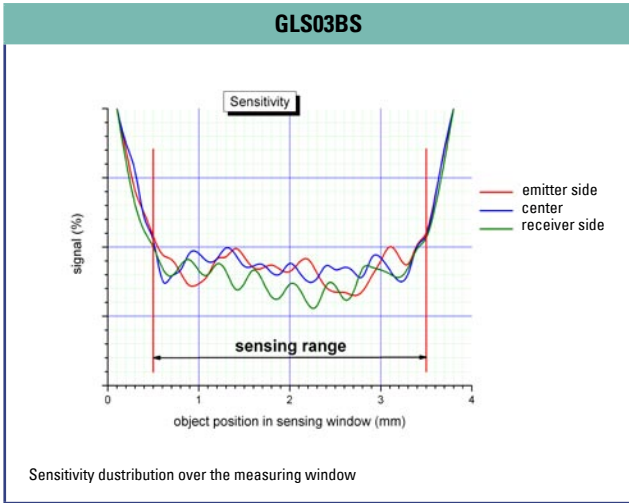
▶ DIMENSIONS Measurements in mm. Subject to technical change.





GLS03BS

► **GRAPHS**

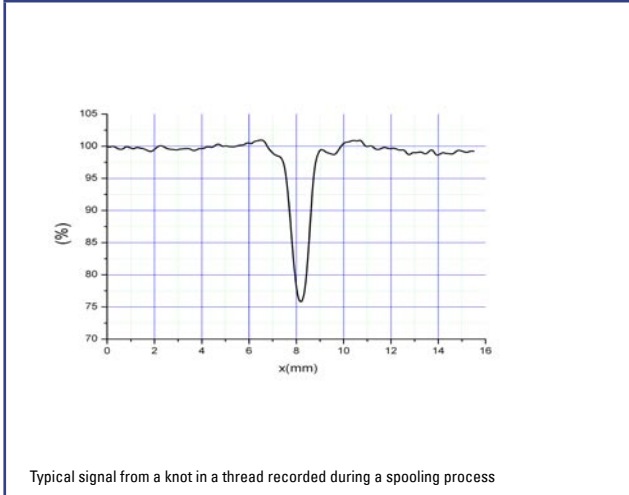


Comment:

Due to the exceptionally consistent intensity distribution in the sensing window the conventional Gaussian distribution in the interior zone (3mm +) is eliminated to a very large extent.

A lateral movement of the object (e.g. thread) therefore only leads to very low fluctuations of the basic signal (noise) from which the amplitudes for knots, material defects or splicings can easily be extracted.

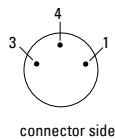
It is recommended to install an appropriate mechanical duct in front of the leading edge of the sensor and thus make sure that occurring object oscillations in the sensing window remain lower than the utilisable sensing range.



► **PIN CONNECTION**

option - 0: M8, 3pin (standard)

- 3 + receiver (green)
- 4 GND/shielding (white, black)
- 1 + emitter (red)



PART DESIGNATION	jacket material	connector	cable length (specification in [m])
	P: PUR-cable black ø 1,8mm F: highly flexible PUR-cable red ø 1,1mm	0: M8 - connector 3pin special model available on request	standard length 1m (special cable length available on request
ORDER EXAMPLE	Model - <input type="text"/> - <input type="text"/> : <input type="text"/> GLS03BS-P-0:1m = light-band fork sensor - fork width 40mm - 30mm range - PUR cable - connector M8, 3pin : 1m cable length Other cable lengths available on request! Please order the selected amplifier separately!		