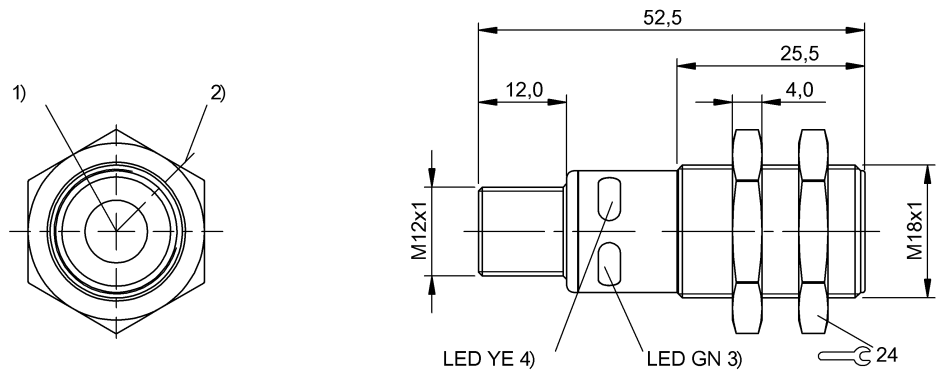




1) Ultrasonic transducer axis, 2) Exit direction 90° connector, 3) Operating voltage, 4) Output function



Basic features

Application	Distance measurement
	Object detection
Approval/Conformity	cULus
	CE
	WEEE
	UKCA
Operating mode	IO-Link
	Reflectionlight scanner (switching point)
	Refl.light scanner (window)
	Retro-reflector
Series	M18M1

Display/Operation

Adjuster	no
Display	Output function- LED yellow LED green: Power

Electrical connection

Connection	M12x1-Male, 5-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Current draw max.	40 mA
Hysteresis H max.	3 mm
Input function	Select operating mode
	Factory setting (Reset)
	Synchronization on/off
	NO/NC
Operating voltage Ub	SIO mode/IO-Link mode
	Teach switching distance, 2 values
	Synchronization signal
Output current max.	10...30 VDC
Rated operating voltage Ue DC	100 mA
Switching frequency	24 V
Synchronization	25 Hz
Ultrasonic Frequency	internal, max. 10 sensors
	320 kHz

Environmental conditions

Ambient temperature	-25...70 °C
IP rating	IP67
Storage temperature	-40...85 °C

Functional safety

MTTF (40 °C)	1134 a
---------------------	--------

Ultrasonic Sensors
BUS M18M1-GPXI-03/025-S92G
Order Code: BUS0029

BALLUFF

Interface

Interface	IO-Link 1.0
Interface setting option	Switch. point (2x for window) SIO mode/IO-Link mode Measured value filter Hysteresis Filter strength (10 levels) Operating mode Foreground suppression range Normally open/Normally closed Factory setting (Reset)
Process data OUT	Distance value Switching state
Process data cycle min.	8 ms
Switching output	PNP/NPN NO/NC push-pull

Material

Housing material	Brass, nickel-plated PBT
Material sensing surface	PU foam/Epoxy resin/Glass
Surface protection	nickel-plated

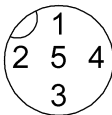
Mechanical data

Dimension	Ø 18 x 52.5 mm
Mounting part	Nut M18x1

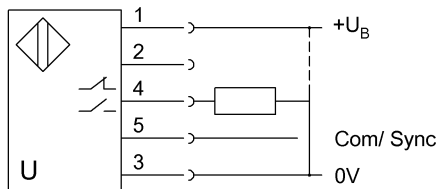
Range/Distance

Measuring range	30...350 mm
Rated operating distance S_n	250 mm
Repeat accuracy	$\pm 0.15\%$ FS
Resolution	≤ 0.069 mm

Connector Drawings



Wiring Diagrams



Technical Drawings

