

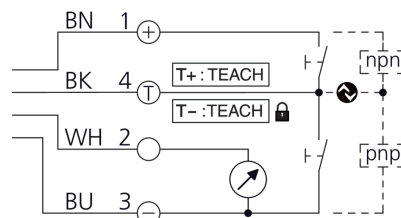
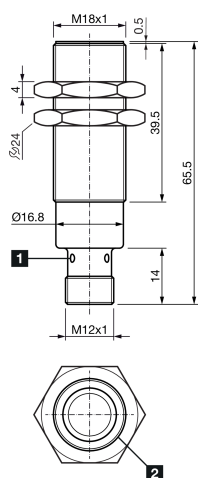


210061

US 18 M 1500 IU-B4

Ultrasonic sensor

- IO-Link
- Configurable as an ultrasonic sensor or barrier
- Working range adjustable
- Analog current output
- Resistant to dirt
- Insensitive to ambient noise
- Measuring does not depend on surface
- High frequency of measuring sequence
- High resolution



1) LED 2 x 2

2) Sound outlet ultrasonic transducer

BK: black

BN: brown

BU: blue

WH: white

Function



Technical data (typ.)

+20°C, 24 V DC

Service voltage	18 ... 30 V DC
No-load current (max.)	35 mA (24 V DC)
Inverse polarity protection	no
Short-circuit protection	Yes
Insulation voltage endurance	500 V
Thread	M18 x 1
Transmission exit	axial
Assembly distance (sensor to sensor)	400 mm
Housing material	Brass (CuZn, nickel-plated)
Material	Epoxy resin, PUR (Transducer surface)
Protection class	III, operation on protective low voltage
Operating principle	Ultrasonic sensor, Ultrasonic sensor
Evaluation	digital, analog (With IO-Link)
Design	Thread
Characteristics	IO-Link
Scope of delivery	2 x M18 nuts
Switching output	Push-pull, 150 mA
Max. switch current	150 mA
Voltage drop (max.)	2 V
Analog output	0 ... 10 V, 4 ... 20 mA



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Interface	IO-Link (V1.1, COM2 38.4 kBd, Smart Sensor Profile)
Load resistance	> 10 KΩ (0 ... 10 V) / < 400 Ω (4 ... 20 mA)
Nominal switching distance (Sn)	1500 mm
Range	150 ... 1500 mm
Adjustment range	150 ... 1500 mm (Teach in)
Resolution	1.0 mm
Standardized measuring plate	100 x 100 mm
Switching hysteresis (max.)	6 ... 20 mm (Adjustable by IO-Link)
Reproducibility	< 1.5 mm
Sensitivity adjustment	Remote teach
Display	LED 1x Green - Status, 1x yellow - Switching output
Ultrasonic frequency	200 kHz
Switching frequency	5 Hz ... 10 Hz
Readiness delay (max.)	300 ms
Shock/vibration load	30 g, 11 ms / 10 ... 55 Hz, 1.0 mm
Ambient temperature during operation	-25 ... +70 °C
Temperature drift	0.2 %/K (uncompensated)
Protection type	IP 67
Connection	Connector, M12, 4-pin
Connection cable	VK ...

More information / accessories

<https://www.di-soric.com/210061>