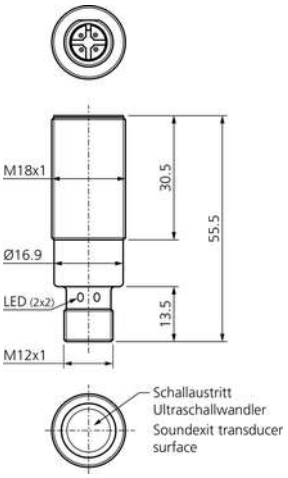
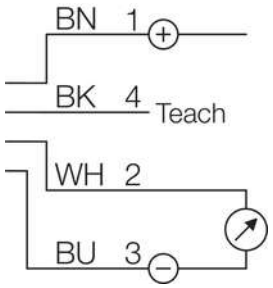
213065
US 18 M 1500 IU-B4
Ultrasonic sensor

- IO-Link
- Configurable as an ultrasonic sensor or barrier
- 3 different teach modes
- Working range adjustable
- Very narrow detection beam / small blind zone
- Switching functions: Closer/opener, window function teach-able
- Resistant to dirt
- Small design
- Robust metal housing
- Protection class IP 67







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.)	40 mA (24 V DC)
Inverse polarity protection	yes, except for the analog output PIN2
Short-circuit protection	Yes
Insulation voltage endurance	500 V
Housing dimensions	M18 x 55 mm
Thread	M18 x 1
Housing length	55 mm
Transmission exit	axial
Assembly distance (sensor to sensor)	700 mm
Housing material	Brass (nickel-plated)
Material	Epoxy resin, PUR (Transducer surface)
Weight	30 g
Protection class	III, operation on protective low voltage
Approvals	UL
Operating principle	Ultrasonic sensor, Ultrasonic barrier
Evaluation	digital, analog
Design	Thread
Characteristics	IO-Link
Parallel operation possible	Yes

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Technical data (typ.)	+20°C, 24 V DC
Operation modes	Master / slave function (synchronization or multiplex operation)
Scope of delivery	Sensor, 2 x M18 nuts
Switching output	Push-pull, 150 mA, NO/NC, switchable
Max. switch current	150 mA
Voltage drop (max.)	2 V
Analog output	0 … 10 V, 4 … 20 mA (0 ... 20 mA IO-Link)
Interface	IO-Link (V1.1, COM2 (38.4 kBd) Smart Sensor Profile)
Load resistance	> 10 KΩ (0 … 10 V) / < 400 Ω (4 … 20 mA / 0 ... 20 mA)
Nominal switching distance (Sn)	1500 mm
Range	150 … 1500 mm
Adjustment range	150 … 1500 mm (Teach in)
Resolution	1.0 mm (Adjusted measuring range/4095 (analog output))
Standardized measuring plate	200 x 200 mm
Switching hysteresis (max.)	6 mm (Adjustable up to 20 mm via IO-Link)
Reproducibility	< 1 mm
Linearity error	< 0.5 %
Sensitivity adjustment	Remote teach
Display	LED 1x Green - Status, 1x yellow - Switching output
Measuring frequency	100 Hz
Ultrasonic frequency	200 kHz
Switching frequency	< 5 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 (compensated)
Temperature drift	< 1 %/Sn (compensated)
Protection type	IP 67
Connection	Connector, M12, 4-pin
Connection cable	VKHM … /4

More information / accessories	https://www.di-soric.com/213065

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