



UM18-11117

UM18

ULTRASONIC SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
UM18-11117	6029508

Other models and accessories → www.sick.com/UM18



Detailed technical data

Performance

Operating range, limiting range	30 mm ... 250 mm, 350 mm
Target	Natural objects
Resolution	≥ 0.08 mm
Repeatability	± 0.15 % ¹⁾
Accuracy	≤ 2 % ¹⁾
Response time	32 ms
Output time	8 ms
Ultrasonic frequency (typical)	320 kHz
Detection area (typical)	See diagrams
Additional function	Teach-in of analog output, Invertable analog output, Multi functional input: external teach / synchronization of up to 10 sensors, reset to factory default

¹⁾ Referring to current measurement value.

Interfaces

Analog output	1 x 0 V ... 10 V (≥ 100 kΩ)
Resolution analog output	12 bit
Multifunctional input (MF)	1 x

Mechanics/electronics

Supply voltage V_s	DC 15 V ... 30 V ¹⁾
Power consumption	≤ 1.2 W ²⁾
Initialization time	< 300 ms
Design	Cylindrical
Housing material	Nickel-plated brass, PBT Ultrasonic transducer: polyurethane foam, glass epoxy resin
Connection type	Male connector, M12, 5-pin

¹⁾ Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A.

²⁾ Without load.

Indication	2 x LED
Weight	55 g
Enclosure rating	IP67

1) Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A.

2) Without load.

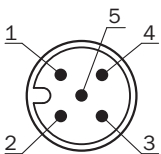
Ambient data

Ambient temperature operation	-25 °C ... +70 °C
Ambient storage temperature	-40 °C ... +85 °C

Classifications



ECI@ss 5.0	27270804
ECI@ss 5.1.4	27270804
ECI@ss 6.0	27270804
ECI@ss 6.2	27270804
ECI@ss 7.0	27270804
ECI@ss 8.0	27270804
ECI@ss 8.1	27270804
ECI@ss 9.0	27270804
ETIM 5.0	EC001846
ETIM 6.0	EC001846
UNSPSC 16.0901	41111960







Connection type



Recommended accessories

Other models and accessories → www.sick.com/UM18

	Brief description	Type	Part no.
Universal bar clamp systems			
	Plate H for universal clamp bracket, steel, zinc coated, Universal clamp (2022726), mounting hardware	BEF-KHS-H01	2022465
Mounting brackets and plates			
	Mounting plate for M18 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M18	5321870

	Brief description	Type	Part no.
	Mounting bracket for M18 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M18	5308446
Terminal and alignment brackets			
	Mounting bracket with ball-and-socket, Plastic, mounting hardware included	BEF-WN-M18-ST02	5312973
	Clamping block for round sensors M18, with fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included	BEF-KHF-M18	2051482
Plug connectors and cables			
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF2A15-020VB5XLEAX	2096239
	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG2A15-020VB5XLEAX	2096215
Programming and configuration tools			
	Tool for visualization, configuration and cloning, 3-digit LED display, supply voltage: DV 9 V ... 30 V	Connect+ adapter (CPA)	6037782

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com