M18 Cylindrical Ultrasonic Sensor — Analog Output

BUDM-M18-I100-U100-S125 series · Sensing Distance: 70...1000mm · Transducer Freq.: 200 kHz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE 70...1000mm	TRANSDUCER FREQ. 200 kHz
AMBIENT TEMP. -25...70°C(248...343K)	HOUSING M18*1mm
BLIND ZONE 0...70mm	INGRESS PROTECTION IP65

MODEL CODES

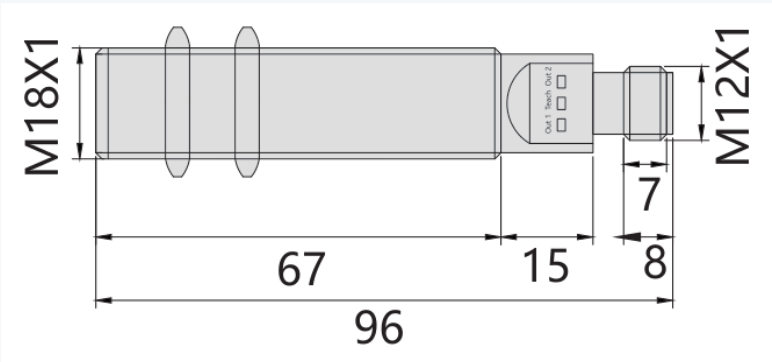
Output Type	≤500Ω	>1000Ω
Analog current / voltage 4-20 mA / 0-10 V	**BUDM-M18-I100-S125** SKU 10105185	**BUDM-M18-U100-S125** SKU 10105186

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	70...1000mm
Blind zone	0...70mm
Standard detection object	100*100mm
Transducer frequency	200 kHz
Power-on delay	About 1.5s
Yellow LED	Constantly bright: the object is within the detection range; flicker: failure of setting detection range
Green LED	Constantly bright: object is within 1000mm, but out of detection range; flicker: failure of setting detection range
Operating voltage	DC 18...30V, Ripple 10%Vss

No-load current	≤50mA
Output type	**≤500Ω:** 1 analog output 4-20mA **>1000Ω:** 1 analog output 0...10V
Resolution	0.35mm
Characteristic curve deviation	Full scale value's ±1%
Repeatability	Full scale value's ±0.1%
Load impedance	≤500Ω >1000Ω
Temperature drift	Full scale value's ±1.5%
Ambient temperature	-25...70°C(248...343K)
Storage temperature	-40...85°C(233...358K)
Connection	M12 connector(5-Pin)
Ingress protection	IP65
Housing material	Housing: Brass, nickel-plated

DIMENSIONAL DRAWINGS



All dimensions in mm.