M30 Cylindrical Ultrasonic Sensor — Analog Output

BUDM-M40-IU400-S125 series · Sensing Distance: 300...4000mm · Transducer Freq.: 75k Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE 300...4000mm	TRANSDUCER FREQ. 75k Hz
AMBIENT TEMP. -25...70°C(248...343K)	HOUSING M30*1.5mm
BLIND ZONE 0...300mm	INGRESS PROTECTION IP65

MODEL CODES

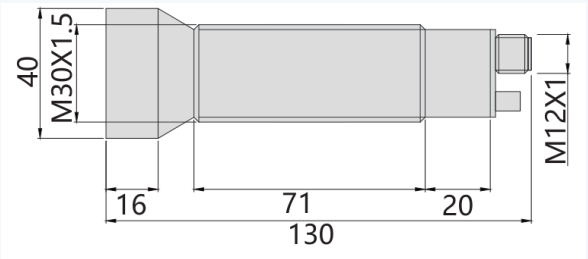
Output Type	Model Code
Analog current / voltage 4-20 mA / 0-10 V	BUDM-M40-IU400-S125 SKU 10105188

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	300...4000mm
Adjustment range	340...4000mm
Blind zone	0...300mm
Standard detection object	100mm*100mm
Transducer frequency	75k Hz
Response delay	Factory setting 440ms
Green LED	Constantly bright: power on, flicker: standby mode or detection in setting state
Yellow LED 1	Constantly bright: Target in the detection range; flicker: setting function
Yellow LED 2	Constantly bright: Target in the detection range; flicker: setting function
Red LED	Constantly bright: temperature/setting plug not connected; flicker: error or target not detected in setting state
Temperature / setting plug	Temperature compensation, switching point setting, output function setting
Operating voltage	10...30VDC, ripple 10%Vpp
Power consumption	≤900mW

Synchronization	Two-way; 0-level: -V...+1v; 1-level: +4v...+V; input impedance: >12kΩ; synchronization pulse: ≥100 μs, synchronization pulse duration: ≥2ms
Common mode operation	≤13Hz
Multiplex mode operation	≤13Hz/n, n=the NO. of proximity sensors, n≤5
Output type	1 current output 4...20mA; 1 voltage output 0...10V
Characteristic curve deviation	Full scale value's ≤0.2%
Repeatability	Full scale value's ≤0.1%
Load impedance	Current output: ≤500Ω; voltage output: ≥1000Ω
Temperature drift	≤2% of full scale value(with temperature compensation); ≤0.2%/K(without temperature compensation)
Standard	IEC/EN 60947-5-2
Ambient temperature	-25...70°C(248...343K)
Storage temperature	-40...85°C(233...358K)
Ingress protection	IP65
Connection method	M12 connector
Housing material	Brass, nickel-plated

DIMENSIONAL DRAWINGS



All dimensions in mm.