M30 Cylindrical Ultrasonic Sensor — Switching Output

BUDM-M40-400-S125 series · Sensing Distance: 300...4000mm · Switching Freq.: ≤1Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **300...4000mm**	SWITCHING FREQ. **≤1Hz**
AMBIENT TEMP. **-25...70°C(248...343K)**	HOUSING **M30*1.5mm**
BLIND ZONE **0...300mm**	INGRESS PROTECTION **IP65**

MODEL CODES

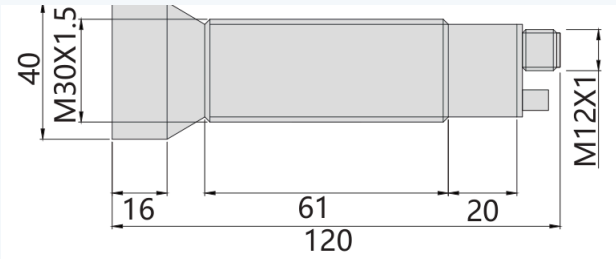
Output Type	Model Code
NPN N.O+N.C	**BUDM-M40-N31400-S125** SKU 10105183
PNP N.O+N.C	**BUDM-M40-P31400-S125** SKU 10105184

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 at setting status
Yellow LED 1	Constantly bright: output switching point 1 status, flicker: setting function
Yellow LED 2	Constantly bright: output switching point 2 status, flicker: setting function
Red LED	Constantly bright: temperature/setting plug not connected; flicker: no target detected or error
Temperature / setting plug	Temperature compensation, switching point setting, output function setting
Operating voltage	10...30VDC, Ripple 10%Vpp

No-load current	≤50mA
Synchronization	Two-way; Level 0: -...+1V; Level 1: +4V...+V; Input impedance: >12KΩ; Synchronization pulse: ≥100 μs, synchronization pulse duration: ≥2ms
Common mode operation	≤13Hz
Multiplex mode operation	≤13Hz/n, n=the number of proximity sensors, n≤5
Output type	2 switching output, NPN/PNP NO+NC
Repeatability	≤0.1% full scale value
Rated operating current	200mA
Voltage drop	≤2.5V
Switching frequency	≤1Hz
Temperature drift	≤2% of full scale value (with 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	M12 Connector
Housing material	Brass, nickel-plated

DIMENSIONAL DRAWINGS



All dimensions in mm.