



extract from our online catalogue:

mic-602/IU/HV/M30

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mic

These completely metal mic sensors are available in two device designs with five different detection ranges.

Highlights

Basics

- > M30 housing and M12 circular connector in metal design > for harsh usage conditions
- > Automatic synchronisation > for simultaneous operation of up to ten sensors in close quarters
- > UL Listed to Canadian and US safety standards
- > 1 switching output in pnp variant
- > Analogue output 4–20 mA and 0–10 V > with automatic switching between current and voltage outputs
- > 5 detection ranges with a measurement range of 30 mm to 8 m
- > microsonic Teach-in on pin 5
- > 0.18 mm to 2.4 mm resolution
- > Temperature compensation
- > 9–30 V operating voltage
- > LinkControl > for configuration of sensors from a PC

This very solid construction

is fully made of metal from the M30 housing to the M12 circular connector. Since the sensors do not contain any operating elements or signal lamps, they are especially suited for application under extreme ambient conditions with high mechanical loads for housing and plug connector. The sensors are available in five detection ranges and cover a measuring range of 30 mm up to 8 m.



M12 metal circular connector (left) and operation under rough conditions (right)

Two output levels

are available for all five detection ranges:



1 pnp switching output



1 analogue output 4–20 mA and 0–10 V

Sensors with switching output have three operating modes:

- Single switching point
- Two-way reflective barrier
- Window mode

Teach-in of a single switching point

- Place object to be detected (1) at the desired distance
- Apply $+U_B$ to pin 5 for about 3 seconds
- Then apply $+U_B$ to pin 5 again for about 1 second



Teach-in of a switching point



Teach-in of a two-way reflective barrier

Teach-in of a two-way reflective barrier

with a fixed reflector

- Apply $+U_B$ to pin 5 for about 3 seconds
- Then apply $+U_B$ to pin 5 again for about 10 seconds

For configuration of a window

- Place object at the near edge of the window (1)
- Apply $+U_B$ to pin 5 for about 3 seconds
- Then move the object to the far edge of the window (2)
- Then apply $+U_B$ to pin 5 again for about 1 seconds

NCC/NOC

and rising/falling analogue characteristic curve can also be set via pin 5.



Teach-in of an analogue characteristic or a window with two switching points



Synchronisation using pin 5

Synchronisation

permits the simultaneous use of multiple mic sensors in an application. To avoid mutual interference, the sensors can be synchronised with one another. To do this, all the sensors are electrically connected on pin 5.

If more than 10 sensors need to be synchronised, this can be carried out with the SyncBox1, which is available as an accessory.

LinkControl

optionally permits the extensive parameterisation of mic sensors. The LCA-2 LinkControl adapter, which is available as an accessory, can be used to connect mic sensors to the PC.



Sensor connected to the PC via LCA-2 for programming

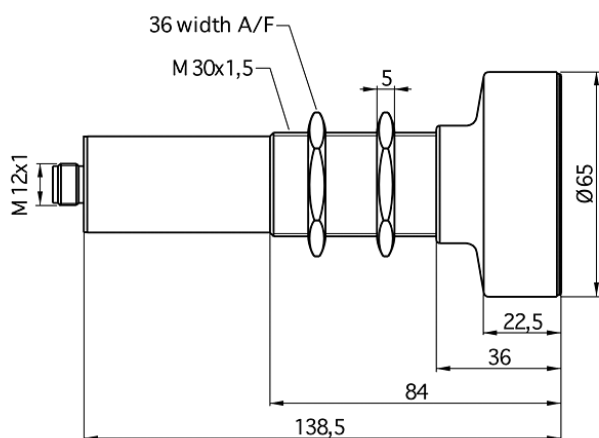
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mic-602/IU/HV/M30

scale drawing



detection zone



Successor model available

mic-600/IU/M

1 x analogue 4-20 mA + 0-10 V

8,000 mm

design

cylindrical M30

operating mode

analogue distance measurements

particularities

archive sensor

Ultrasonic-Specific

means of measurement

echo propagation time measurement

transducer frequency

80 kHz

blind zone

600 mm

operating range

6.000 mm

max. range

8,000 mm

resolution

reproducibility

± 0.15 %

accuracy

± 1 % (temperature drift internally compensated)

Electrical Data

operating voltage U_B

voltage ripple

± 10 %

no-load current consumption

type of connection

outputs

output 1	analogue output current: 4-20 mA / voltage: 0-10 V (at $U_B \geq 15$ V), short-circuit-proof switchable rising/falling
response delay	240 ms
delay prior to availability	< 1,500 ms

Inputs

input 1	com input
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housing

material	brass sleeve, nickel-plated, plastic parts, PBT, TPU
ultrasonic transducer	polyurethane foam, epoxy resin with glass contents
class of protection to EN 60529	
operating temperature	
storage temperature	
weight	360 g

Technical Features/Characteristics

controls	
scope for settings	
synchronization	no
multiplex	no

pin assignment

