WICLO LOUIC



Extract from our online catalogue:

mic-35/IU/M

Current to: 2021-04-30



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

HIGHLIGHTS

1-800-350-7937 | www.ibisep.com | info@ibisep.com

- ➤ 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

BASICS

- > 1 switching output in pnp variant
- ➤ Analogue output 4–20 mA and 0–10 V ➤ with automatic switching between current and voltage outputs
- $oldsymbol{>}$ 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

Description

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)





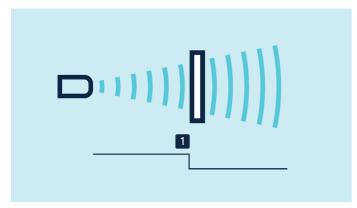
1 analogue output 4-20 mA and 0-10 V

Sensors with switching output have three operating modes:

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

Teach-in of a single switching point

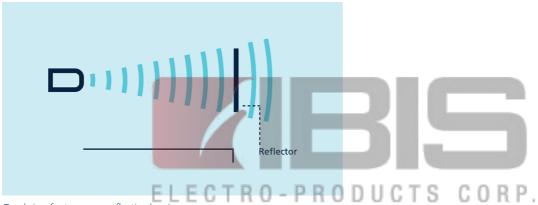
- > Place object to be detected (1) at the desired distance
- > Apply +U_B to pin 5 for about 3 seconds
- > Then apply +U_B to pin 5 again for about 1 seconds



Teach-in of a switching point

Teach-in of a two-way reflective barrier with a fixed reflector

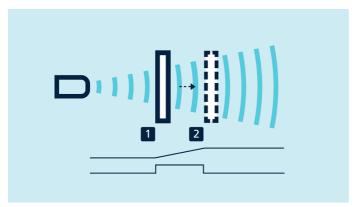
- > Apply +U_B to pin 5 for about 3 seconds
- > Then apply +U_B to pin 5 again for about 10 seconds



Teach-in of a two-way reflective barrier 1-800-350-7937 | www.ibisep.com | info@ibisep.com

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



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

NCC/NOC

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

LinkControl

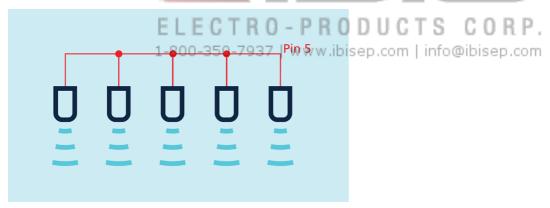
optionally permits the extensive parameterisation of mic sensors. The LCA-2 LinkControl adapter , which is available as an accessory, can be used to connect mic sensors to the PC.



Sensor connected to the PC via LCA-2 for programming

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.

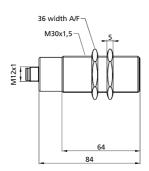


Synchronisation using pin 5

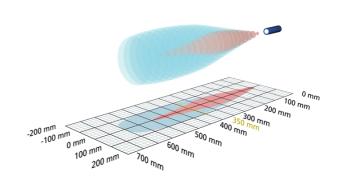
If more than 10 sensors need to be synchronised, this can be carried out with the SyncBox1, which is available as an accessory.

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scale drawing



detection zone





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



65 - 600 mm measuring range cylindrical M30 design operating mode analogue distance measurements metal plug for harsh operational conditions particularities ultrasonic-specific echo propagation time measurement means of measurement LECTRO-PRO 400 kHz transducer frequency 1-800-350-7937 | www.ibisep.com | info@ibisep.com blind zone 350 mm operating range 600 mm maximum range resolution 0.18 mm ± 0.15 % reproducibility ± 1 % (temperature drift internally compensated) accuracy electrical data

operating voltage U _B	9 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 55 mA
type of connection	5-pin M12 initiator plug

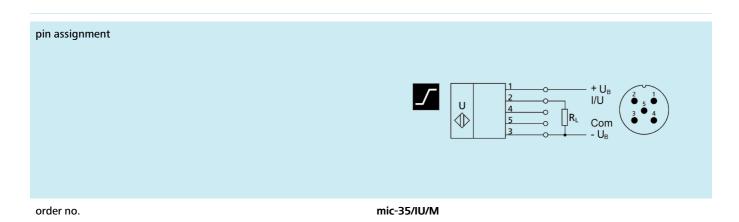
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outputs		
output 1		analogue output current: 4-20 mA / voltage: 0-10 V (at $U_B \ge$ 15 V), short-circuit-proof switchable rising/falling
response time		64 ms
delay prior to availability		< 420 ms
inputs		
input 1		com input teach-in input
housing		
material		brass sleeve, nickel-plated, plastic parts, PBT
ultrasonic transducer		polyurethane foam, epoxy resin with glass contents
class of protection to EN 6052	29	IP 67
operating temperature		-25°C to +70°C
storage temperature		-40°C to +85°C
weight		200 g
further versions		cable connection (on request)
technical features/characteristics LECTRO-PRODUCTS CORP.		
temperature compensation		isep.com info@ibisep.com
controls		com input control input
scope for settings		Teach-in via com input on pin 5 LCA-2 with LinkControl
Synchronisation		yes
multiplex		no
indicators		no

metal plug for harsh operational conditions

particularities

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