

M-LAS Series

▶ Product Information

With an external diameter starting from 3 mm or thread M4, these laser light barrier types should be among the smallest all over the world. Because of its compact design, the M-LAS Series find application where little space is available on the one hand, and a small light spot (parallel or focused) is required on the other hand.

Various control units are available:

- RS232 version, parameterizable under Windows®
- Analog version with 4...20 mA output
- Digital version with automatically corrected switching threshold

Ideal for detecting extremely small parts, and for positioning of objects



Laser Light Barriers

Characteristics:

- Big transmitter/receiver distance
- Low beam divergency
- Insensitive to outside light due to modulated IR-light
- Laser class 1 ($P_o < 0,4 \text{ mW}$)
- High switching frequency
- Sturdy metal housing
- Scratch-resistant optics cover made of glass

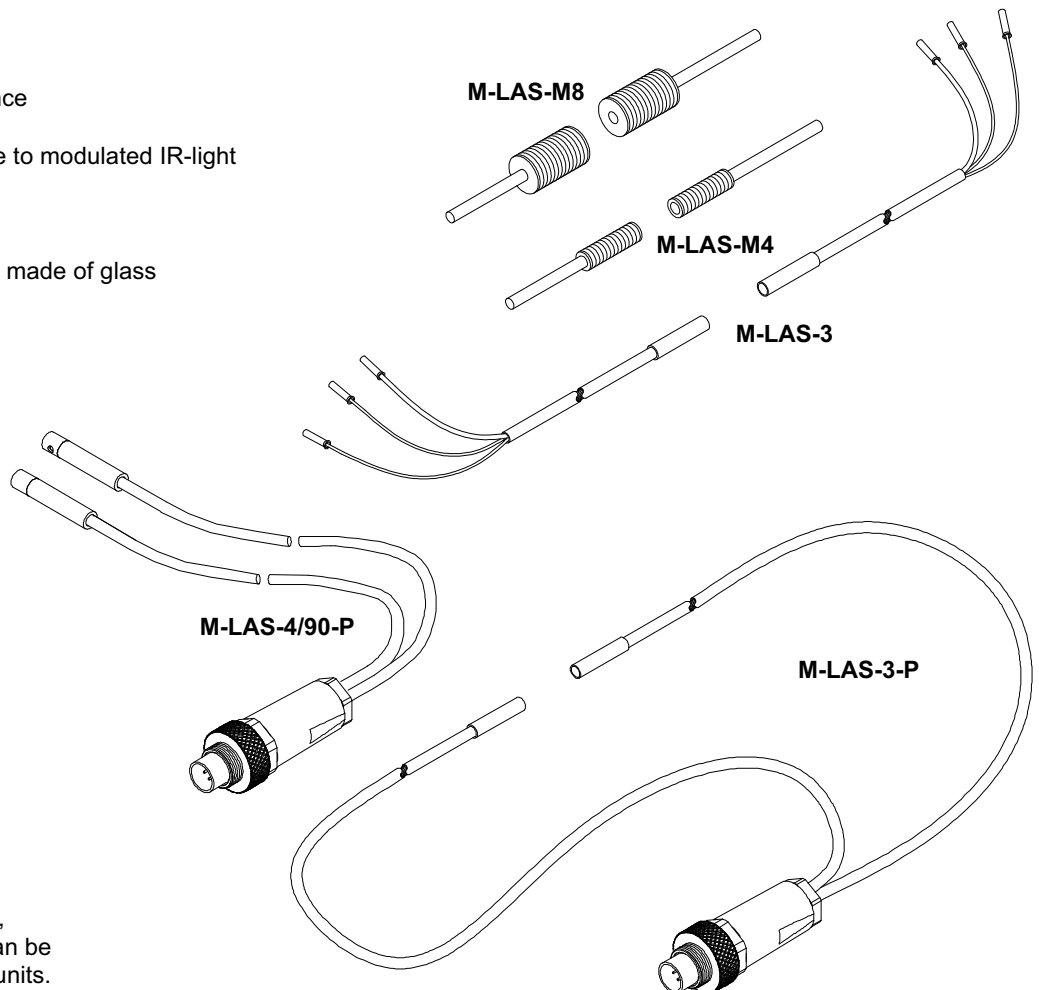
Sensor types

without connector:

- M-LAS-3
- M-LAS-M4
- M-LAS-M8

Sensor types with 8-pin circular connector:

- M-LAS-3-P
- M-LAS-M4-P
- M-LAS-M8-P
- M-LAS-4/90-P



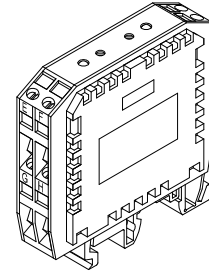
Depending on the requirements, the M-LAS laser light barriers can be combined with different control units.



Electronic Control Units

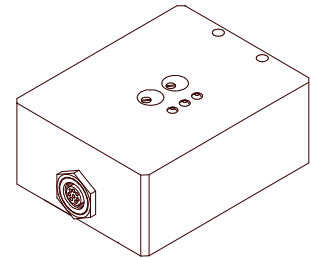
M-CON1

Two M-LAS sensors can be connected to the M-LAS-CON1 unit. The sensitivity for each channel is adjusted with a potentiometer.



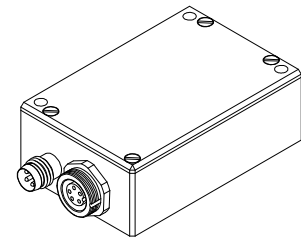
M-CON2

The M-CON2 control unit provides both static and dynamic (15 ms pulse length) digital signals (+24V/0V) and an analog voltage output (0 ... +10V), as well as an analog current output (4 mA ... 20 mA). Gain factor and sensitivity can each be set with a potentiometer. The switching state is indicated by means of an integrated LED.



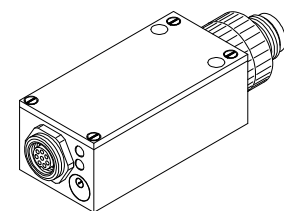
M-CON3

With the M-CON3 control unit, the sensors of the M-LAS series can be parameterised under Windows® (RS232 interface). Furthermore, the digitised analog value is shown on the PC monitor both numerically and graphically. The output (4-pol. M8) provides both an analog signal (0V ... 10V) and a digital signal (0V/+24V).



M-CON4

The M-CON4 version of the control unit provides two switching signals (static Q, Qinv) through a 4-pole M12 connector. The sensitivity can be set with the integrated potentiometer. Switching state indication is effected with a yellow/green LED.



M-CON8

The M-CON8 control unit provides two digital signals (static Q, Qinv: +24V/0V) through a 4-pole M8 connector. The sensitivity can be set with a potentiometer that is integrated in the housing. A change of switching state is indicated by a yellow/green LED.

