LP4ER/OB-080M4

LP4



Indicative image

LIGHT CURTAINS TYPE 4

- Type 4 according IEC 61496-1 and IEC 61496-2
- Robust housing (50x60 mm) for applications in presence of heavy shocks and vibrations
- 40 mm resolution for hand protection and 2,3,4 beams for body protection/access control
- Operating distance up to 16 m (standard version) and up to 60 m (LONG RANGE version)
- Integrated functions: MANUAL/AUTOMATIC Restart, EDM and operating distance selectable
- Standard M12 5 poles connector on TX unit and M12 8 poles or M23 9 poles on RX unit

Detection properties

Nominal sensing distance	≤ 16m
Resolution	400mm
controlled height	800mm
number of rays	3
Effective Aperture Angle	≤ ±2,5°

Application

Function Principle	Emitter + Receiver
Available functions	Manual/Automatic Restart, EDM, System Status, Muting 4 Sensors

Safety parameters

Type	4
SIL	3
SILCL	3
PL	e

PFHd	7,10E-09
Dcavg	97,99%
MTTFd	100
CFF	80%

Outputs

Output type	2 x PNP-NO (OSSD safety output)
Response time	7ms

Electrical data

Operating Voltage	19,2 ... 28,8 Vcc
Load current	500mA
Time delay before availability	15s
Interference to external light	According to IEC 61496-2
Power Consumption - Receiver	6W
Power Consumption - Emitter	3W
Equivalent Resistive Load	≥ 48 Ω
Capacitive Load	≥ 2 µF
Cabel Length (Power Supply/Output)	100m

Mechanical data

Dimensions	50mm (front) x 60mm
Connections	M12-5 poles (emitter) M23-19 poles (receiver) 2 x M12-5 poles (muting)
Operating temperature	0°C...+55°C
Storage temperature	-25°C...+70°C
humidity	95% (no condensation)

Test/Approvals

Approvals	CE, cULus, TÜV
EMC compatibility	According to 2014/30/EU Directive
Shocks and vibrations	According to IEC 61496-1
Degree of protection	IP65

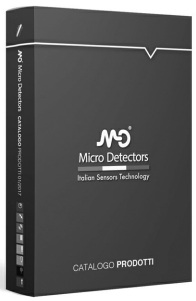
Accessories

Supplied Accessories	ST 202, ST 203

Generical Data

Dimensions	50mm (front) x 60mm
Operating Temperature	0°C...+55°C
Humidity	95% (no condensation)
Mechanical Protection	IP65

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



For the wiring diagram, consult the catalogue or manual.

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