



Multiple light beam safety devices M4000 Advanced A/P

M40Z-025003TB0, PSD01-2501



Sender/receiver in one housing

Model Name [> M40Z-025003TB0](#)
Part No. [> 1200128](#)

Mirror

Model Name [> PSD01-2501](#)
Part No. [> 1027907](#)

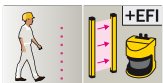


At a glance

- Sender/receiver in a single housing, scanning range up to 7.5 m
- External device monitoring (EDM), restart interlock (RES), application diagnostic output (ADO), SDL interface
- Muting in combination with the UE403 IP-65 switching amplifier
- Configuration and diagnostics via PC
- 7-segment display
- Beam coding for correct system allocation
- Laser alignment aid and LED optional integrated

Your benefits

- Economical active/passive variants minimize the wiring costs and installation time
- Robust design with a high level of resistance to environmental changes ensures high machine availability, even under special ambient conditions
- Mounting grooves on three housing sides ensure more mounting flexibility and simplify machine integration
- Customer-friendly interfaces and status display simplify commissioning and maintenance
- For 2- and 4-sensor muting, the on-site connection of the muting signals significantly minimizes wiring costs and simplifies commissioning and maintenance
- Reduced downtime due to 360° visible LED, diagnostics displays and configuration memory in the UE403 switching amplifier



Applications

Access protection (vertical):	✓
Access protection with muting:	✓
Hazardous area protection (horizontal):	-

Functions-Sender/receiver in one housing

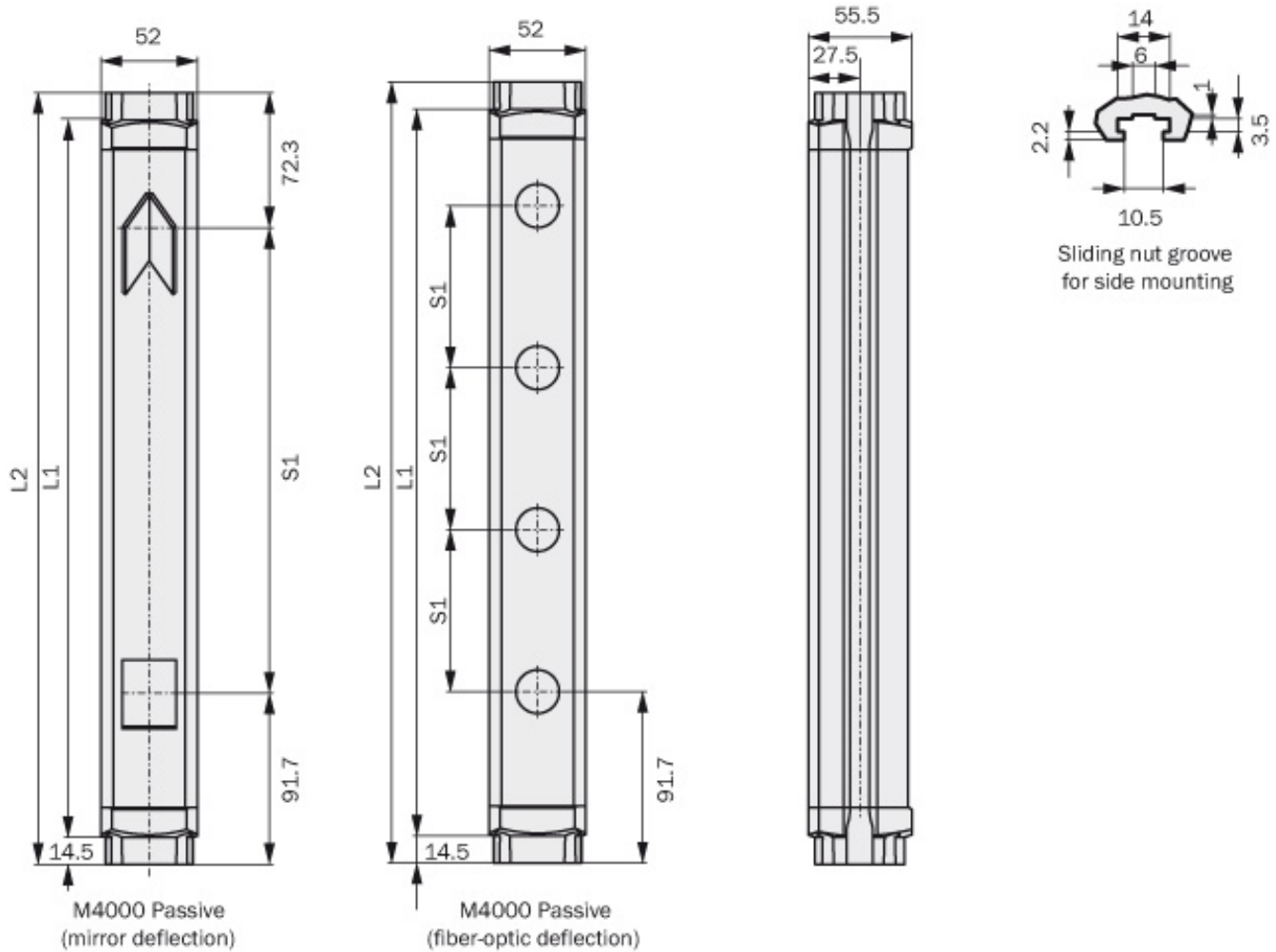
System construction:	Active/passive system
Restart interlock:	✓
Restart interlock (delivery status):	Internal
External device monitoring (EDM):	✓
External device monitoring (delivery status):	Activated
Beam coding:	✓
Beam coding (delivery status):	Non-coded
Muting with:	UE403
Configurable application diagnostic output:	✓
Application diagnostic output (delivery status):	Contamination (OWS)
Configurable scanning range:	✓
Scanning range (delivery status):	4.5 m
Integrated laser alignment aid:	-
End cap with integrated LED:	-
Additional reset connection:	-
SDL interface:	✓
Configuration method:	PC with CDS (Configuration and Diagnostic Software)
Sender test:	-
Monitoring total muting time (with UE403):	✓
Concurrence monitoring (with UE403):	✓
Sensor gap monitoring (with UE403):	✓
Sensor test (with UE403):	✓
End of muting by ESPE (with UE403):	✓
Belt stop (with UE403):	✓
Safe device communication via EFI/SDL:	✓
Exit monitoring (with UE403):	✓
Reading mode:	✓
CDS data recorder:	✓
Event history:	✓

Technical Data-Sender/receiver in one housing

Number of beams:	2
Scanning range from ... to:	≤ 4.5 m, configurable
Scanning range High Range:	0.5 m ... 4.5 m
Type:	Type 4 (IEC 61496)
Safety integrity level:	SIL3 (IEC 61508), SILCL3 (IEC 62061)
Category:	category 4 (EN ISO 13849)
Performance level:	PL e (EN ISO 13849)
PFHd:	6.6 * 1E-09
TM (mission time):	20 a
Housing cross-section:	52 mm x 55.5 mm
Maximum response time:	10 ms
Supply voltage typical, from, to:	24 V DC, 19.2 V DC, 28.8 V DC
Power consumption:	≤ 0.6 A
Type of output:	Safety outputs (OSSD)
Display elements:	LED/7-segment
Maximum switching voltage:	UV - 2,25 V
Maximum switching current:	500 mA
Protection class:	III (EN 50178:1998)
Enclosure rating:	IP 65 (EN 60529)

System connection:	Hirschmann plug M26 x 11 + FE
Ambient operating temperature from ... to:	-30 °C ... 55 °C
Vibration resistance (checked to):	5 g (IEC 60068-2-6)
Oscillation frequency from ... to:	10 Hz ... 55 Hz
Shock resistance:	10 g, 16 ms (IEC 60068-2-29)
Resolution:	500 mm
Scanning range from ... to (delivery status):	≤ 4.5 m

Dimensional drawing



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