

AMI 42

Active beam deflection for ROBUST 2-beam light grids



Active beam deflection AMI 42

AMI 42 is an active deflecting mirror with an integrated transmitter and receiver system. The infrared light signals picked up by the receiver are sent back unchanged via the transmitter to the safety system. High function range is achieved by the amplification of the light signal. AMI 42 is applicable together with the multiple light beam safety devices RRT 42 and RRT 22.

Advantages

- Beam distance 500 mm (according to EN 999)
- Active deflecting mirror in sturdy aluminium extrusion profile
- Simple alignment because of optical parts with $\pm 2^\circ$ effective beam width
- Integrated lens heating system for use in extreme environmental conditions
- Simple mounting via adjustable M6 sliding brackets

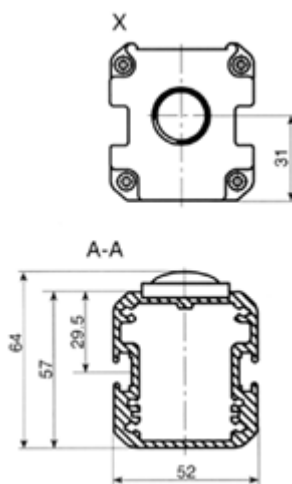
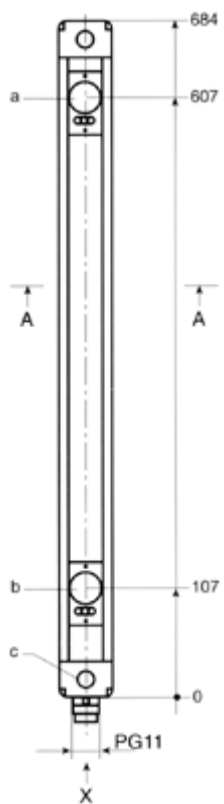
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Areas of application

- AMI 42 is a functional unit together with **ROBUST RRT 42** (AOPD) type 4 according to EN/IEC 61496-1, -2.
- AMI 42 can also be used with a **ROBUST RRT 22**. Then it is an AOPD type 2 (testing) according to EN/IEC 61496-1, -2.

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Dimensional Drawings

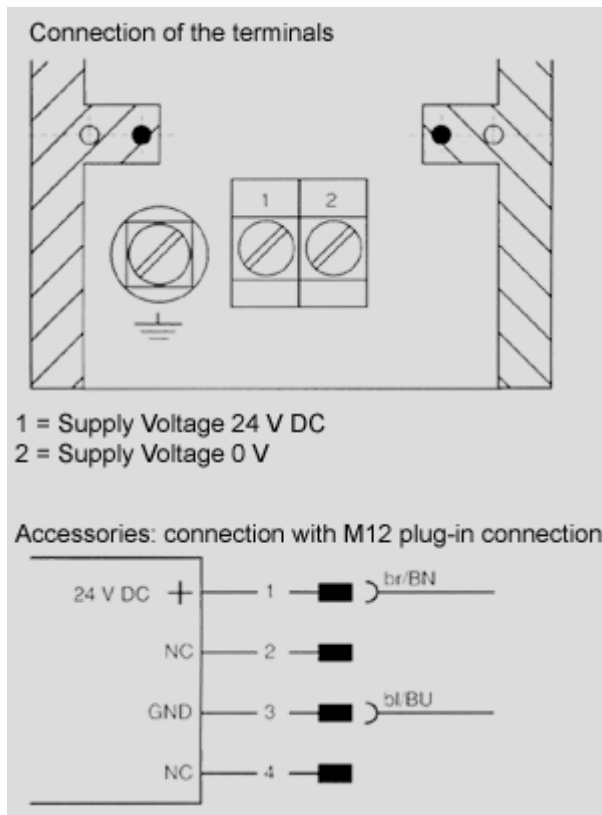


- a) Receiver module
- b) Transmitter module
- c) Prepared for PG 9 (at the front and back)

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Electrical Connection

Application drawing AMI 42



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Technical Data

active beam deflection	AMI 42
Safety category	Category 4 according to EN-/IEC 61496-1, -2
Operating range	with RRT 42 0,5 - 50 m with RRT 22 0,5 - 50 m
Enclosure rating	IP 67
VDE Protection class	1 (with M12 protection class 3, operation only with safe low voltage according to DIN VDE 0100 part 410)
Ambient temperature (operation/storage)	-25 °C to +55 °C/-30 °C to +70 °C
Operation voltage U_B	24 V DC \pm 15 %
Residual ripple	\leq 15 % von U_B
Current consumption	approx. 80 mA
Connection	With PG screwing (PG 11) for cable connection
Weight	900 g
Light source, transmitting module	LED, Infrared (alternating light)
Wave length	880 nm
Receivermodul LED yellow	bei U_B ON
Transmittermodul LED yellow	Transmitter active (transmitter)
Housing	Aluminium-extrusion profile
Color	RAL 1021, gelb
Optical parts	Glass, with lens heating system

Notes

AMI 42 active beam deflection is in connection with a transceiver:

- RRT 22 an AOPD Type 2 according to EN-/IEC 61496-1, -2
- RRT 42 an AOPD Type 4 according to EN-/IEC 61496-1, -2