



Thru-beam sensor

LA28-F1/116



- Universal series with highly versatile fields of use
- Resistant against noise: reliable operation under all conditions
- Highly visible LED as alignment aid in receiver optics
- Programmable time function GAN, GAB, IAB as well as GAN-IAB and GAN-GAB as double function
- Version with red light
- Version with relay output

Thru-beam sensor emitter











Function

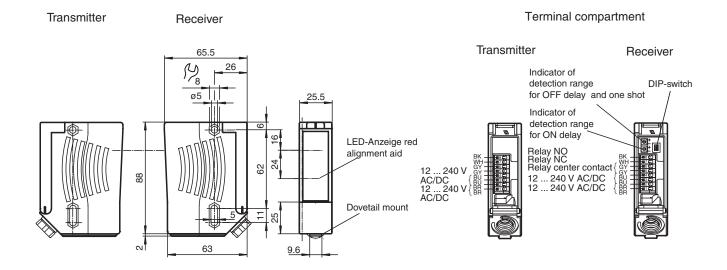
The series 28 family of sensors can be universally used. It has a large range of models that allows it to be integrated into any automation environment. The sensors are contained in sturdy water resistant plastic housings with multiple fastening options and scratch resistant optical cover. Features such as a timer function, and functions including a light/dark switch, sensitivity adjuster and highly visible status LEDs make for less effort on the part of the user and streamline installation, setup and operation. Just about any task associated with positioning, moving, conveying and monitoring can be accomplished with these sensors.

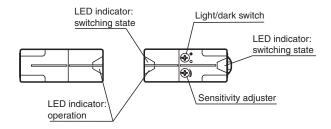
Application

- Object tracking in material handling, and the packaging sector
- · Material flow monitoring
- · Bin occupancy check in storage technology
- Fine positioning in high-bay warehouses
- · Presence and height monitoring on pallet conveyors
- · Single-beam protection for automatic industrial gates and elevator doors
- · Protection at automatic gates

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Dimensions



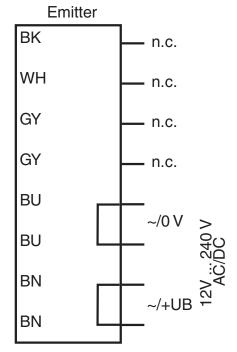


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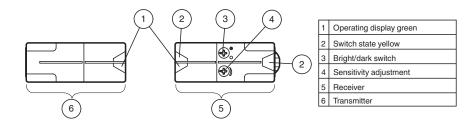
System components		
Emitter		LA28-F1/116
General specifications		
Light source		LED
Light type		modulated visible red light
Transmitter frequency		F1 = 25 kHz
Diameter of the light spot		approx. 1.3 m at 65 m
Opening angle		1.2°
Functional safety related parameters		
MTTF _d		490 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green
Electrical specifications		
Operating voltage	U_B	12 240 V AC/DC
Power consumption	P_0	≤ 3.5 VA
Compliance with standards and directives		
Directive conformity		Low Voltage Directive 2006/95/EC EMC Directive 2004/108/EC
Standard conformity		
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates	
Protection class	II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Output circuit basis insulation of input circuit according to EN 50178, rated insulation voltage 230 V AC Caution! The protection class 2 is only valid when the terminal compartment is closed.
UL approval	cULus Listed Caution: This equipment is considered as open-type equipment. It must be mounted within an enclosure, that is suitably designed for protection against internal fire and personal injury resulting from accessibility to live parts according UL 508.
CCC approval	Certified by China Compulsory Certification (CCC)
Ambient conditions	
Ambient temperature	-40 60 °C (-40 140 °F)
Storage temperature	-40 60 °C (-40 140 °F)
Mechanical specifications	
Housing width	25.8 mm
Housing height	88 mm
Housing depth	65.5 mm
Degree of protection	IP67
Connection	terminal compartment with 8 spring-loaded terminals for wire cross section 0.5 1.5 $$ mm 2 , Insulation stripping 7.5 8.5 mm , M16 x 1.5 cable gland
Material	
Housing	Plastic ABS
Optical face	Plastic pane
Mass	100 g

Connection Assignment



Assembly

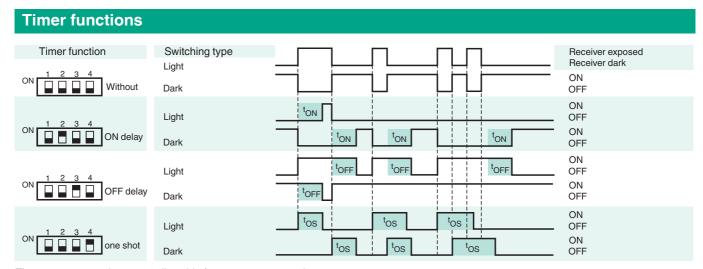


Application



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6.	OMH-05	Mounting aid for round steel ø 12 mm or sheet 1.5 mm 3 mm
	OMH-21	Mounting bracket: mounting aid for sensors in the RL* series
	OMH-22	Mounting aid for RL* series
	OMH-RLK29	Mounting bracket
	OMH-RLK29-HW	Mounting bracket for rear wall mounting
	OMH-RL28-C	Weld slag cover model



Time t_{ON} , t_{OFF} and t_{OS} are adjustable from 0.1 to 10 seconds. The Light-/Dark-Switch (Left, outer switch) is shown in the "Dark ON" position.

Туре	Description	Notes		
-Z	OFF delay timer	Adjustable time interval		
	one shot timer	(0.1 s - 10 s)		
	ON delay timer			
	ON delay timer / OFF delay timer			
	ON delay timer / one shot timer			