



Compact Light Barrier

Series Eltrostar M 12

- Diffuse reflective and through beam lightbarrier
- Metal housing
- PNP switching output, light or dark switching

Principal features:

- Diffuse reflective and through-beam lightbarriers in identical size
- Metal housing brass, nickel-plated
- Compact size
- Power supply **10-30VDC**
- Light- or dark-switching
- PNP-switching output
- Operation indicator at emitter (LED red)
- Switching output display (LED red)
- Short-circuit protected
- Connection plug M12
- Degree of protection IP 67
- CE

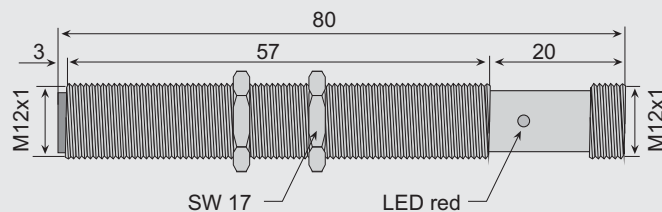
Typical applications:

- Position control at automatic machines and feed systems
- Assembling and handling technology
- Packaging technology
- Material handling technology
- Elevating construction
- Machine construction
- Robotic technology

Advantages:

- One size for all versions
- External light insensitive
- Fast and flexible assembly also in small mounting conditions
- LED display for operation and switching condition

Dimensions



All dimensions in mm

Wiring connections

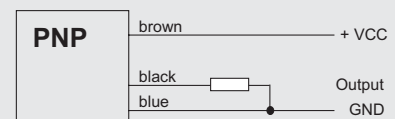
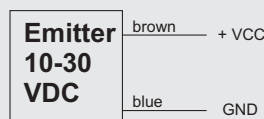
Emitter

1 brown (+) VCC
3 blue GND

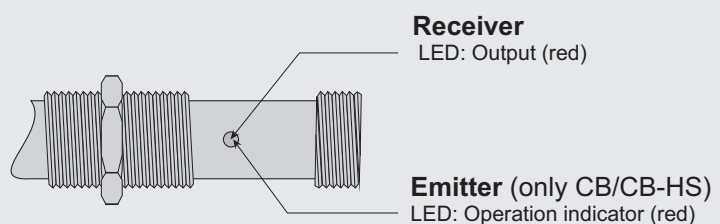


Receiver

1 brown (+) VCC
3 blue GND
4 black Output



Operating and display elements



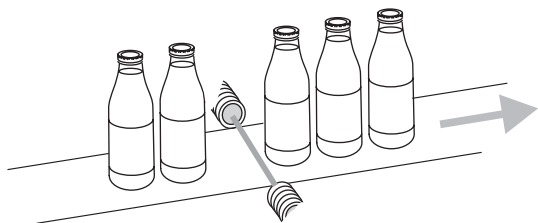
Technical data

Specific data		Direct reflection	Reflective lightbarrier	Through beam lightbarrier Standard	Through beam lightbarrier High-Speed
	Type M12- Sensing range (app.)	CP4 200 mm	CR 2 m	CB 4 m	CB-HS 1 m
Electrical data	Switch. frequency	100 Hz	100 Hz	50 Hz	10.000 Hz
	Light source	LED infrared	LED infrared	LED infrared	LED red
	Operating voltage	10-30 VDC			
	Max. res. ripple	≤ 10 %			
	Current consumption	~ 50 mA			
	Output	PNP short circuit protected light or dark switching (N.O. or N.C.)			
	Output current	≤ 200 mA			≤ 50 mA
	Voltage drop	≤ 1.2 V (at 200 mA)			≤ 0.5V (at 50mA)
Data on ambiente conditions	Operating temp.	-20 to +50 °C			
	Light immunity	≤ 10.000 Lux (daylight)			≤ 7500 Lux
	Protection degree	IP 67			
Mechanical data	Material	Brass, nickel plated			
	Weight (approx.)	25 g		140 g	150 g

Ordering information

Product		Direct reflection	Reflective lightbarrier	Through beam lightbarrier Standard	Through beam lightbarrier High-Speed				
Eltrostar M12 lightbarriers	Type M12-	CP4	CR	CB	CB-HS				
	Switching output	light Q	dark \overline{Q}	light Q	dark \overline{Q}	light Q	dark \overline{Q}	light Q	dark \overline{Q}
	Part No.	11031402	11031403	11031404	11031405	11031406	11031407	11031408	11031409
Accessories	Reference								
	Cable with 2 LEDs 2 m with M12-plug angular	Part No. 11241120							
	Reflector E600	Part No. 11261138							

Application Presence check



Presented by:

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Compact light barrier

Series Eltrostar M 18

- Diffuse reflective and through beam lightbarrier
- Switchable PNP/NPN output
- Metal housing (stainless steel)
- Diffuse reflection barrier with polarised filter

Principal features:

- Diffuse reflective and through beam lightbarrier in identical size
- Polarised reflective light barrier to detect mirror-like surfaces
- Compact size
- Straight and angular version
- Metal housing (stainless steel)
- Power supply **10-30 VDC**
- Transistor output PNP/NPN switchable
- Light / dark switching
- Operation indicator at emitter
- Switching output display
- Stability display
- Short-circuit protected
- Degree of protection IP 67
- Connecting plug M12
- CE

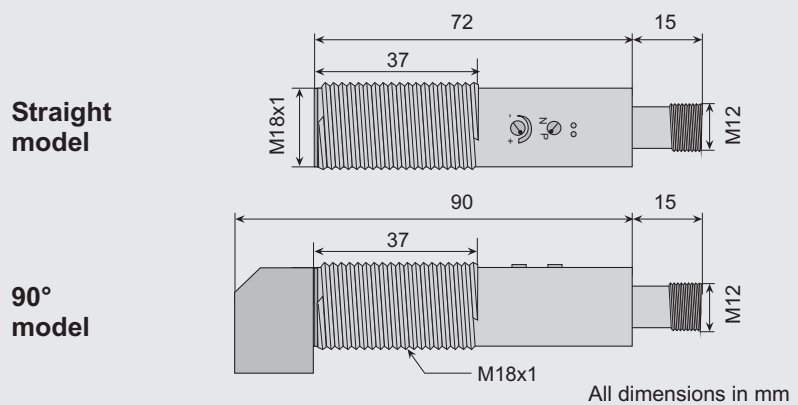
Typical applications:

- Position control in feed systems
- Assembling and handling technology
- Packaging technology
- Materials handling technology
- Elevating construction
- Robotic technology

Advantages:

- External light insensitive
- Fast and flexible assembly also in small mounting conditions
- LED display for operation, switching output and stability signal

Dimensions



Wiring connections

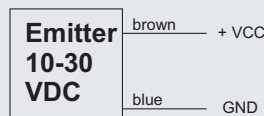
Emitter

- 1 brown (+) VCC
- 3 blue GND

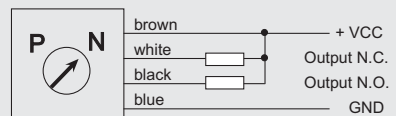


Receiver

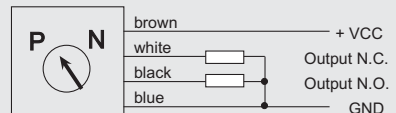
- 1 brown (+) VCC
- 2 white Output
- 3 blue GND
- 4 black Output



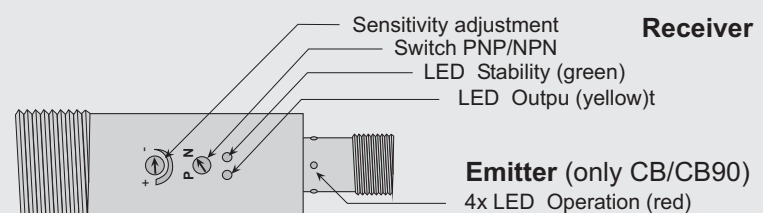
NPN



PNP



Operating and display elements



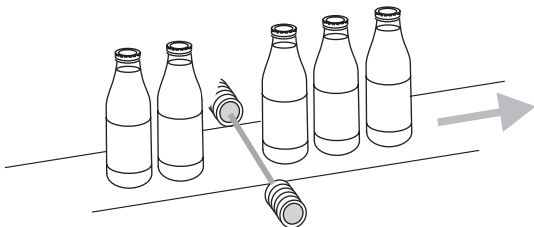
Technical data

Specific data		Direct reflection		Reflective lightbarrier		Refractive lightbarrier polarised		Through beam lightbarrier	
	Type M18-	CP4	CP4-90	CR	CR-90	CAR	CAR-90	CB	CB-90
	Model	straight	90°	straight	90°	straight	90°	straight	90°
	Sensing range (app.)	400 mm		2.5 m		1 m		15 m	
Electrical data	Switch. frequency	700 Hz		700 Hz		700 Hz		250 Hz	
	Light source	LED infrared		LED infrared		LED red		LED infrared	
	Operating voltage	10-30 VDC							
	Max. res. ripple	≤ 10 %							
	Current consumption	~ 50 mA							
	Output	NPN / PNP, switching light or dark, short-circuit protected							
	Output current	≤ 200 mA							
	Voltage drop	≤ 3 V (at 200 mA)							
Data on ambiente conditions	Operating temp.	-20 to +50 °C							
	Storage temp.	-20 to +65 °C							
	Permissible external light	≤ 10.000 Lux (daylight)							
	Protection degree	IP 67							
Mechanical data	Material	Stainless steel AISI 3031							
	Weight (approx).	55 g straight; 65 g 90° angular version							

Ordering informations

Product		Direct reflection		Reflective lightbarrier		Reflective lightbarrier polarised		Through beam lightbarrier									
	Eltrostar M18 Lightbarriers	Type M18-		CP4	CP4-90	CR	CR-90	CAR	CAR-90	CB	CB-90						
	Model	straight	90°	straight	90°	straight	90°	straight	90°	straight	90°						
	Part No.	11031394		11031395		11031396		11031397		11031398		11031399		11031400		11031401	
Accessories	Reference																
	Cable 2 m with M12 plug angular with 2 LEDs	PNP version Part No. 11241120				NPN version Part No. 11251411											
	Reflector E600	Part No. 11261138															

Application Presence check



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