

**New**



# LC-120

**High-performance sensors**

## Features

### Maximum performance in compact housing

The **LC120 series**, developed in the 50×50×18mm compact plastic housing, offers the maximum performance of optic detection functions for industrial automation.

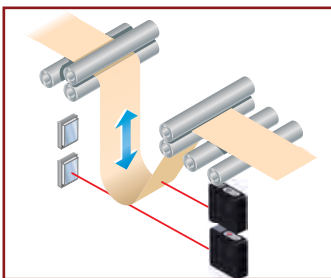
Furthermore, versions with visible red laser emission are available with 5–35cm background suppression and polarized retro-reflex reaching more than 20m.

These laser sensors are characterized by a very small light spot as well as a low response time that guarantee excellent detection repeatability, even of very small objects or movements.

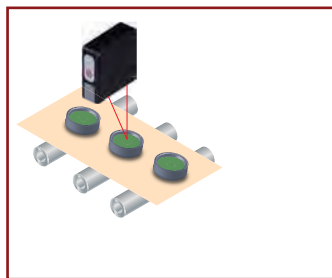
- High-resolution sensors with LED or laser emission
- Background suppression models ranging up to 350mm
- Polarized retroreflex with operating distance of up to 20m
- Plastic housing with compact dimensions of 50×50×18mm
- NPN or PNP double output with standard NO-NC
- Visible class 2 laser red light emission (typ. 658nm)
- Very fast response time less than 200µs
- Very high switching frequency of up to 2.5kHz

## Typical Applications

### Foil detection



### Pharmaceutical industry




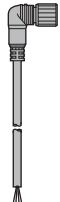

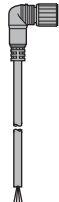
## Technical Specifications

NPN-Output	LC-120-PL2000-A-P-J*	LC-120-BL0015-A-P-J	LC-120-BL0035-A-P-J
PNP-Output	LC-120-PL2000-A-P-PN-J*	LC-120-BL0015-A-P-PN-J	LC-120-BL0035-A-P-PN-J
Sensor type	Retroreflective	Reflective with BGS	
Maximum operation distance	20m	150mm	350mm
Sensing range	0.3 to 20m	30 to 150mm	50 to 350mm
Spot diameter	Ø 0.5mm (at 0.5m)	0.2mm (at 60mm)	0.4mm (at 150mm)
Standard sensing object	Metal, black Opaque, translucent	Paper, white Opaque	
	Ø 6mm	100 x 100mm	
Detection capability	Opaque	Opaque	Opaque
Hysteresis	—	<1%	
Response time	200µs	140µs	200µs
Output	Max. 100mA		
Emitting element	Red semiconductor laser, 645 to 665nm (Class 2)		
Current consumption without load	Max. 30mA		
Material	Enclosure: Plastic		
Protection	IP67		
Dimensions (H×W×D)	Approx. 50×66×18mm		
Connection	M12 connector		
Supply voltage	10 to 30V DC		
Ambient temperature	Operation: -10 to +50°C, storage: -25 to +70°C		
Weight	Approx. 40g		
[PN] = PNP • [J] = M12 connector			

\* Reflector not included

## Options

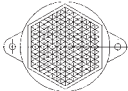
### Cables

UZZ81220	UZZ81221	UZZ81250	UZZ81251
2m straight	2m elbow	5m straight	5m elbow
			

### Mounting bracket

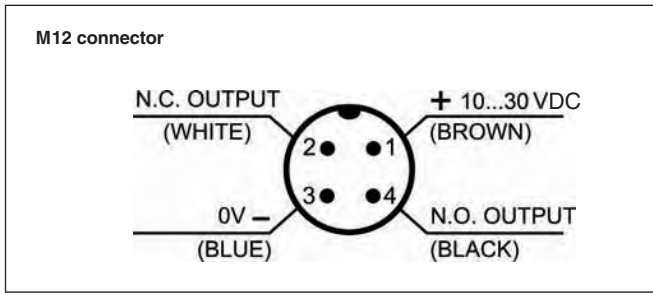
LC10-ST62	LC12-ST50	LC1-ST60	LC1-ST26
			

### Reflector

M18-RF48


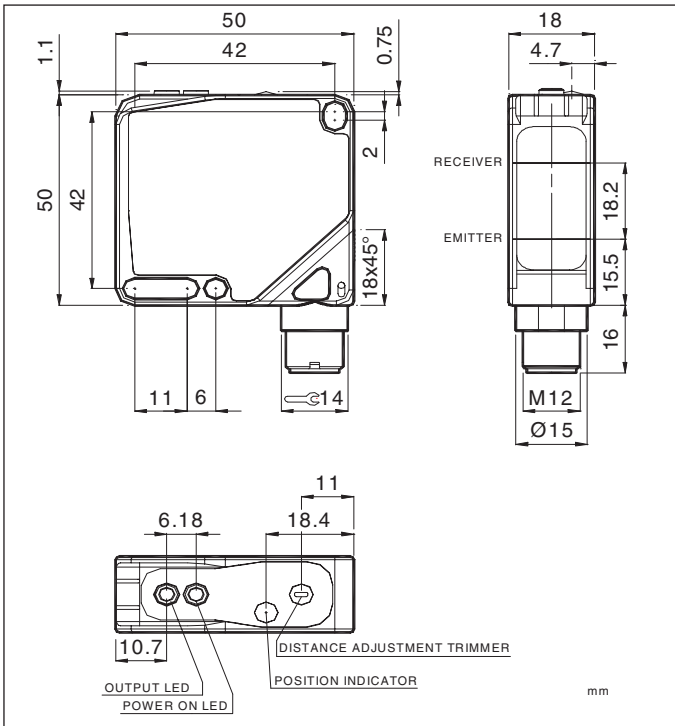
### Connections

#### LC-120-BL / LC-120-PL



### Dimensions

#### LC-120-BL



#### LC-120-PL

