

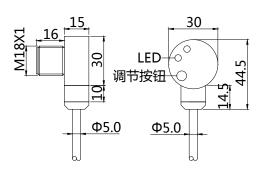


Features:

- Diffuse type,DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm, Right-angle plastic housing;
- VDE safety class:III;
- Ingress protection:IP66



Dimensioned drawing



Model No.

Sensing range	Sn: 150 mm	Sn: 500 mm	
NPN Light/Dark-on	FQ18-T015N-P31P2-E	FQ18-T05N-P31P2-E	
PNP Light/Dark-on	FQ18-T015P-P31P2-E	FQ18-T05P-P31P2-E	

Background suppression

Diffuse type sensors



Diffuse reflection type photoelectric sensorprinciple and the principle of mirror reflection type photoelectric sensor is the same,butit doesn' t take reflective lenses,The light emittedby the transmitter directly sendingback receiver bythe analyte.Receiver estimate dtection of objects reflected back to the lightrays, the positioning of bojects is not very strict Whenobject under test enterinto effective light rays area, output state changes. The detection ranged epends on object under test size, shape, color and surface properties.

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz
	Light type	Infrared light 880nm/Red light 650nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-2555℃
	Ambient humidity	35-85%
Mechanical data	Housing material	PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	PVC cable/2m;4*0.25mm ²
Accessories	Accessories	NO
	(to be ordered separately)	





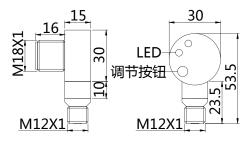


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- Cable & connector versions;
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- VDE safety class:III;
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Dimensioned drawing



Model No.

Sensing range	Sn: 150 mm	Sn: 500 mm
NPN Light/Dark-on	FQ18-T015N-P31S12-E	FQ18-T05N-P31S12-E
PNP Light/Dark-on	FQ18-T015P-P31S12-E	FQ18-T05P-P31S12-E

Background suppression

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	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-2555℃
	Ambient humidity	35-85%
Mechanical data	Housing material	PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2
	(to be ordered separately)	





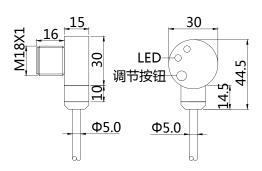


Features:

- Retro-reflective, DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm,Right-angle plastic housing;
- VDE safety class:III;
- Ingress protection:IP66



Dimensioned drawing



Model No.

Sensing range	Sn: 0.1-3 m	
NPN Light/Dark-on	FQ18-R3N-P31P2-E	
PNP Light/Dark-on	FQ18-R3N-P31P2-E	

Background suppression

Retro-reflective sensors



Retro-reflective sensor put transmitter andreceiver encapsulated into same shel,in the opposite install aspeculum,the light emitted by the reflector is reflected therough the reflector back to the receiver.

When the beam is occlusion, generate a switch changes.

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz
	Light type	Infrared light 880nm/Red light 650nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-2555℃
	Ambient humidity	35-85%
Mechanical data	Housing material	PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	PVC cable/2m;4*0.25mm ²
Accessories	Accessories	FR-Q51
	(to be ordered separately)	





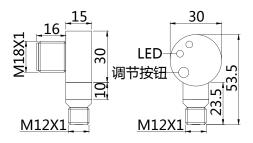


Features:

- Retro-reflective, DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm,Right-angle plastic housing;
- VDE safety class:III;
- Ingress protection:IP66



Dimensioned drawing



Model No.

Sensing range	Sn: 0.1-3 m	
NPN Light/Dark-on	FQ18-R3N-P31S12-E	
PNP Light/Dark-on	FQ18-R3P-P31S12-E	

Background suppression

Retro-reflective sensors



Retro-reflective sensor put transmitter andreceiver encapsulated into same shel,in the opposite install aspeculum,the light emitted by the reflector is reflected therough the reflector back

When the beam is occlusion, generate a switch changes.

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz
	Light type	Infrared light 880nm/Red light 650nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-2555℃
	Ambient humidity	35-85%
Mechanical data	Housing material	PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2/FR-Q51
	(to be ordered separately)	





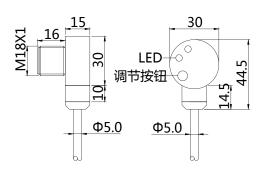


Features:

- Through-beam, Emitter/receiver set, DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm, Right-angle plastic housing;
- VDE safety class:III;
- Ingress protection:IP66



Dimensioned drawing



Model No.

Sensing range	Sn: 15 m	
Transmitter	FQ18-L15MD-P51P2-E	
NPN Light/Dark-on	FQ18-L15MN-P31P2-E	
PNP light/Dark-on	FQ18-L15MP-P31P2-E	

Background suppression

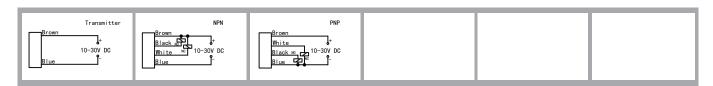
Through-beam sensors



Through-beam photoelectric sensors has independent transmitters and receivers, structure two are separated from each o-time of installation,must be bothaligned establish light path. No matter any objectblocking the light,the voltage of the receiver drops,switch changes.

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz
	Light type	Infrared light 880nm/Red light 650nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-2555℃
	Ambient humidity	35-85%
Mechanical data	Housing material	PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	PVC cable/2m;4*0.25mm²/2*0.5mm²
Accessories	Accessories	NO
	(to be ordered separately)	





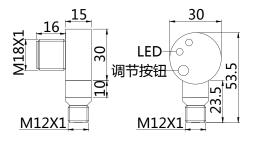


Features:

- Through-beam, Emitter/receiver set, DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm,Right-angle plastic housing;
- VDE safety class:III;
- Ingress protection:IP66



Dimensioned drawing



Model No.

Sensing range	Sn: 15 m	
Transmitter	FQ18-L15MD-P51\$12-E	
NPN Light/Dark-on	FQ18-L15MN-P31\$12-E	
PNP Light/Dark-on	FQ18-L15MP-P31S12-E	

Background suppression

Through-beam sensors



Through-beam photoelectric sensors has independent transmitters and receivers, structure two are separated from each other, the emitter(E) directly transmitted to the receiver(R). At the time of installation, must be bothaligned establish light path. No matter any objectblocking the light, the voltage of the receiver drops, switch changes.

Technical data

Electrical data

	Switching frequency	500Hz
	Light type	Infrared light 880nm/Red light 650nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
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Mechanical data	Housing material	PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2
	(to be ordered separately)	

10-30V DC

Operating voltage

