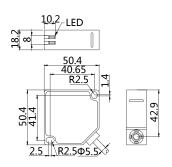


Features:

- Diffuse type,DC4-wire discrete output;
- Cable & connector versions;
- Q50,plastic housing;
- VDE safety class:III;
- Ingress protection:IP65



Dimensioned drawing



Model No.

Sensing range	Sn: 0.2-1 m	Sn: 0.3−2 m	
NPN Light/Dark-on	FQ50-T1N-P31P2	FQ50-T2N-P31P2	
PNP Light/Dark-on	FQ50-T1P-P31P2	FQ50-T2P-P31P2	

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 rangedepends on object under test size, shape, color and surface properties.

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	200Hz
	Light type	Infrared light 880nm/Red light 650nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<100ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<10000Lux.
	Ambient temperature	-2555℃
	Ambient humidity	35-85%
Mechanical data	Housing material	PBT
	Lens material	PMMA
	Operating indicator	Yellow:output/Green:power supply
Electrical connection	Connectors	PVC cable/2m;4*0.25mm ²
Accessories	Accessories	NO
	(to be ordered separately)	





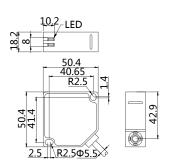


Features:

- Diffuse type,AC/DC5-wire;
- Cable & connector versions;
- Q50,plastic housing;
- VDE safety class:III;
- Ingress protection:IP65



Dimensioned drawing



Model No.

Sensing range	Sn: 0.2−1 m	Sn: 0.3-2 m	
Light/Dark-on	FQ50-T1U-P45P2	FQ50-T2U-P45P2	

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 rangedepends on object under test size, shape, color and surface properties.

Technical data

Electrical data	Operating voltage	24-240V AC/DC
	Switching frequency	10Hz
	Light type	Infrared light 880nm/Red light 650nm
	Response time	<5ms
	Load current	3A/30VDC;1A/220VAC
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<10000Lux.
	Ambient temperature	-2555℃
	Ambient humidity	35-85%
Mechanical data	Housing material	PBT
	Lens material	PMMA
	Operating indicator	Yellow:output/Green:power supply
Electrical connection	Connectors	PVC cable/2m;5*0.25mm ²
Accessories	Accessories	NO
	(to be ordered separately)	

|--|



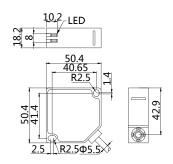


Features:

- Retro-reflective, DC4-wire discrete output;
- Cable & connector versions;
- Q50,plastic housing;
- VDE safety class:III;
- Ingress protection:IP65



Dimensioned drawing



Model No.

Sensing range	Sn: 5 m	Sn: 5 m	
NPN Light/Dark-on	FQ50-R5N-P31P2	FQ50-R5N-P31P2-F	
PNP Light/Dark-on	FQ50-R5P-P31P2	FQ50-R5P-P31P2-F	

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.

to the receiver.

When the beam is occlusion, generate a switch changes.

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	200Hz
	Light type	Infrared light 880nm/Red light 650nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<100ms
	Adjustment	Single-turn protentiometer
	Blind distance	No photosensitivity
Environment	Light immunity	<10000Lux.
	Ambient temperature	-2555℃
	Ambient humidity	35-85%
Mechanical data	Housing material	PBT
	Lens material	PMMA
	Operating indicator	Yellow:output/Green:power supply
Electrical connection	Connectors	PVC cable/2m;4*0.25mm ²
Accessories	Accessories	NO
	(to be ordered separately)	





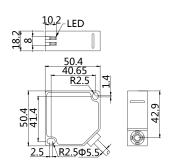


Features:

- Retro-reflective, AC/DC5-wire;
- Cable & connector versions;
- Q50,plastic housing;
- VDE safety class:III;
- Ingress protection:IP65



Dimensioned drawing



Model No.

Sensing range	Sn: 5 m	
Light/Dark-on	FQ50-R5U-P45P2	
Light/Dark-on	FQ50-R5U-P45P2-F	

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	24-240V AC/DC
	Switching frequency	10Hz
	Light type	Red light 650nm
	Response time	<5ms
	Load current	3A/30VDC;1A/220VAC
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
	Blind distance	No photosensitivity
Environment	Light immunity	<10000Lux.
	Ambient temperature	-2555℃
	Ambient humidity	35-85%
Mechanical data	Housing material	PBT
	Lens material	PMMA
	Operating indicator	Yellow:output/Green:power supply
Electrical connection	Connectors	PVC cable/2m;5*0.25mm ²
Accessories	Accessories	FR-D83
	(to be ordered separately)	

|--|

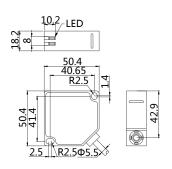


Features:

- Through-beam, Emitter/receiver set, DC4-wire discrete output;
- Cable & connector versions;
- Q50,plastic housing;
- VDE safety class:III;
- Ingress protection:IP65



Dimensioned drawing



Model No.

Sensing range	Sn: 20 m	Sn: 40 m	
Transmitter	FQ50-L20MD-P51P2	FQ50-L40MD-P51P2	
NPN Light/Dark-on	FQ50-L20MN-P31P2	FQ50-L40MN-P31P2	
PNP Light/Dark-on	FQ50-L20MP-P31P2	FQ50-L40MP-P31P2	

Background suppression

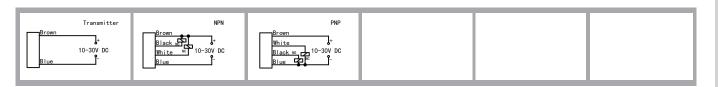
Through-beam sensors



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	Operating voltage	10-30V DC
	Switching frequency	200Hz
	Light type	Infrared light 880nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<100ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<10000Lux.
	Ambient temperature	-2555℃
	Ambient humidity	35-85%
Mechanical data	Housing material	PBT
	Lens material	PMMA
	Operating indicator	Yellow:output/Green:power supply
Electrical connection	Connectors	PVC cable/2m;4*0.25mm ²
Accessories	Accessories	NO
	(to be ordered separately)	



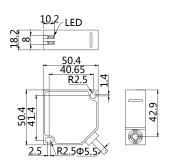


Features:

- Through-beam,Emitter/receiver set,AC/DC5-wire;
- Cable & connector versions;
- Q50,plastic housing;
- VDE safety class:III;
- Ingress protection:IP65



Dimensioned drawing



Model No.

Sensing range	Sn: 20 m	Sn: 40 m
Transmitter	FQ50-L20MU-P55P2	FQ50-L40MU-P55P2
NPN/PNP Light/Dark-on	FQ50-L20MU-P45P2	FQ50-L40MU-P45P2

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	Operating voltage	24-240V AC/DC
	Switching frequency	10Hz
	Light type	Infrared light 880nm/Red light 650nm
	Response time	<5ms
	Load current	3A/30VDC;1A/220VAC
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<10000Lux.
	Ambient temperature	-2555℃
	Ambient humidity	35-85%
Mechanical data	Housing material	PBT
	Lens material	PMMA
	Operating indicator	Yellow:output/Green:power supply
Electrical connection	Connectors	PVC cable/2m;5*0.25mm ² /2*0.5mm ²
Accessories	Accessories	NO
	(to be ordered separately)	

