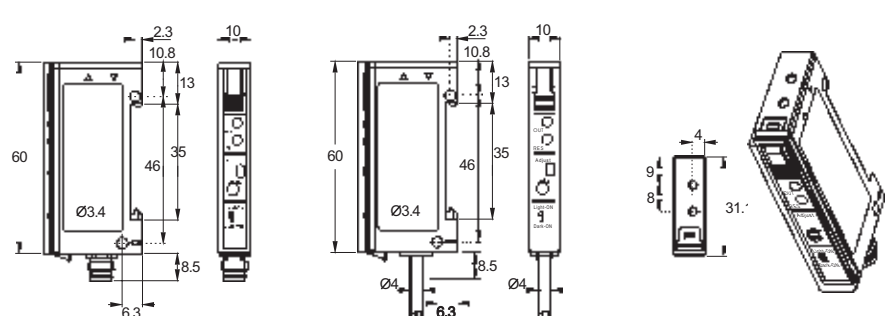
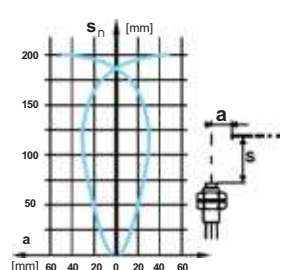
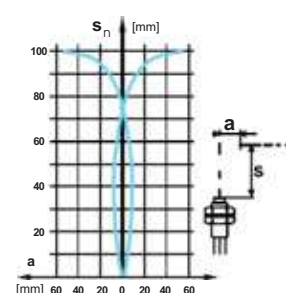


Sensors type	Fiber-optic amplifier with potentiometer	Blue-light fiber-optic amplifier with potentiometer
Sensing distance	200mm	100mm
Photo	<p>Dimensions(mm)</p> 	
	<p>Response curve</p> 	
NPN potentiometer/cable	FOS3-D0200N-CX6C4U2-P	FOS3-D0100N-CX4C4U2-P
NPN potentiometer/connector	FOS3-D0200N-CX6Q4UP-P	FOS3-D0100N-CX4Q4UP-P
PNP potentiometer/cable	FOS3-D0200P-CX6C4U2-P	FOS3-D0100P-CX4C4U2-P
PNP potentiometer/connector	FOS3-D0200P-CX6Q4UP-P	FOS3-D0100P-CX4Q4UP-P
Operating distance	200mm	100mm
Emitter	LED red 680 nm	LED blue 465 nm
Standard target	100X100 mm white	
Weight	69 g / 18 g	
No-load supply current (at $U_b=24V$)	15 mA typ.	
Hysteresis	10% typ.	
Supply voltage range U_s	10...30 V DC	
Max.ripple content	20%	
Output current	200 mA max.	
Output voltage drop	2.0 V max. at 200mA	
Max.switching frequency	1500 Hz	
Switching time (↑ and ↓)	330 μsec	
Max.ambient light	Halogen 5000 Lux Sun 10000Lux	
Ambient temperature range	-25...+55 °C	
Degree of protection	IP64	
EMC protection	ICE 60255-5 5kV; IEC 61000-4-2 Level 2; IEC 61000-4-3 Level 3; IEC 61000-4-3 Level 2	

FOS3 SERIES

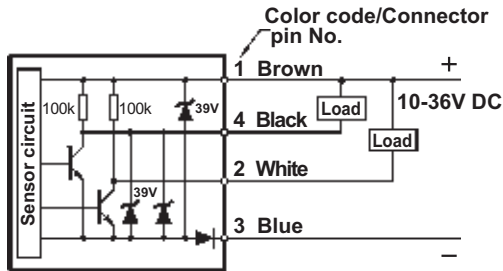
PHOTOELECTRIC SENSORS TYPE

Sensors type	Fiber-optic amplifier with teach-in	Blue-light fiber-optic amplifier with teach-in	Fiber-optic amplifier with teach-in high switching frequency
Sensing distance	200mm	100mm	140mm
Photo	<p>Dimensions(mm)</p>		
	<p>Response curve</p>		
NPN potentiometer/cable	FOS3-D0200N-CX6C4U2	FOS3-D0100N-CX4C4U2	FOS3-D0140N-CX4C4U2
NPN potentiometer/connector	FOS3-D0200N-CX6Q4UP	FOS3-D0100N-CX4Q4UP	FOS3-D0140N-CX4Q4UP
PNP potentiometer/cable	FOS3-D0200P-CX6C4U2	FOS3-D0100P-CX4C4U2	FOS3-D0140P-CX4C4U2
PNP potentiometer/connector	FOS3-D0200P-CX6Q4UP	FOS3-D0100P-CX4Q4UP	FOS3-D0140P-CX4Q4UP
Operating distance	200mm	100mm	140mm
Emitter	LED red 680 nm	LED blue 465 nm	LED red 680 nm
Standard target	100X100 mm white		
Weight	68 g / 17 g		
No-load supply current (at U_b=24V)	25 mA typ.		
Hysteresis	10% typ.		
Supply voltage range U_b	10...30 V DC		
Max.ripple content	20%		
Output current	200 mA max.		
Output voltage drop	2.0 V max. at 200mA		
Max.switching frequency	1500 Hz		
Switching time (↑ and ↓)	330 μsec / 100 μsec*		
Max.ambient light	Halogen 5000 Lux Sun 10000Lux		
Ambient temperature range	-25...+55°C		
Degree of protection	IP64		
EMC protection	ICE 60255-5 5kV; IEC 61000-4-2 Level 2; IEC 61000-4-3 Level 3; IEC 61000-4-3 Level 2		

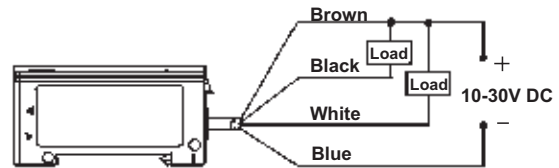
FOS3-DO100N-CX4C4U2-P FOS3-DO200N-CX6C4U2-P
FOS3-DO100N-CX4Q4UP-P FOS3-DO200N-CX6Q4UP-P



1. I/O circuit diagram

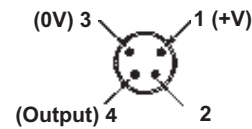


2. Wiring diagram



3. Connector pin position

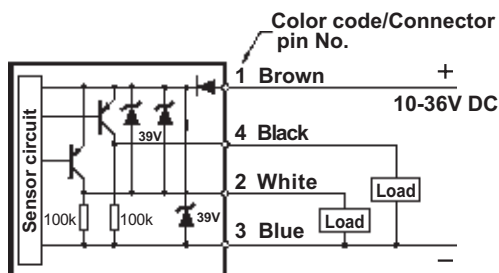
PICO-Style



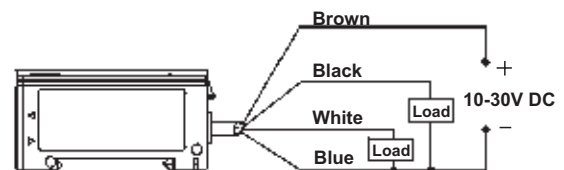
FOS3-DO100P-CX4C4U2-P FOS3-DO200P-CX6C4U2-P
FOS3-DO100P-CX4Q4UP-P FOS3-DO200P-CX6Q4UP-P



1. I/O circuit diagram

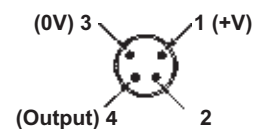


2. Wiring diagram



3. Connector pin position

PICO-Style



FOS3 SERIES

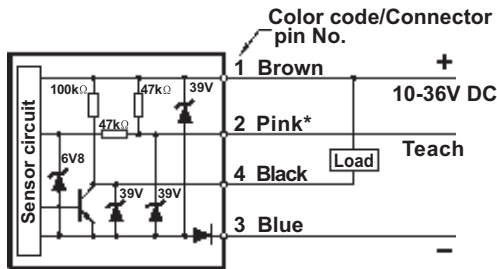
PHOTOELECTRIC I/O CIRCUIT AND WIRING DIAGRAMS

FOS3-DO100N-CX4C4U2
FOS3-DO100N-CX4Q4UP

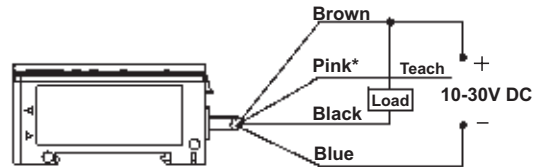
FOS3-DO200N-CX6C4U2
FOS3-DO200N-CX6Q4UP



1. I/O circuit diagram

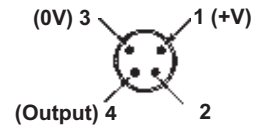


2. Wiring diagram



3. Connector pin position

PICO-Style

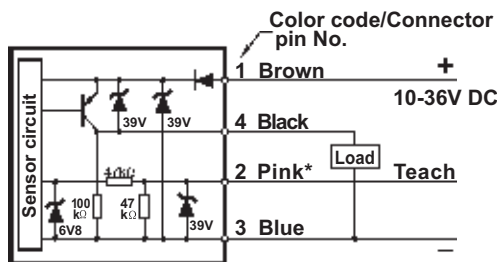


FOS3-DO100P-CX4C4U2
FOS3-DO100P-CX4Q4UP

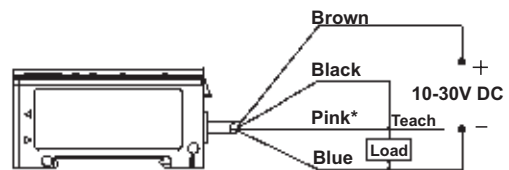
FOS3-DO200P-CX6C4U2
FOS3-DO200P-CX6Q4UP



1. I/O circuit diagram

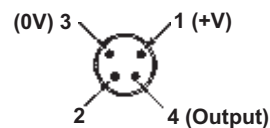


2. Wiring diagram



3. Connector pin position

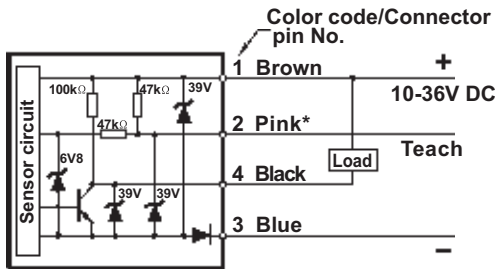
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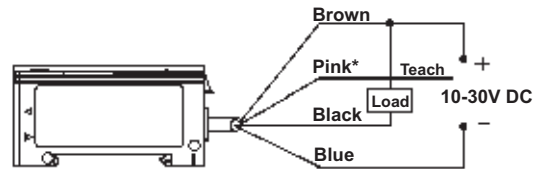
FOS3-DO140N-CX4C4U2 FOS3-DO140N-CX4Q4UP



1. I/O circuit diagram

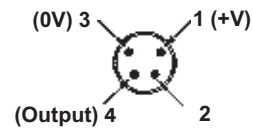


2. Wiring diagram



3. Connector pin position

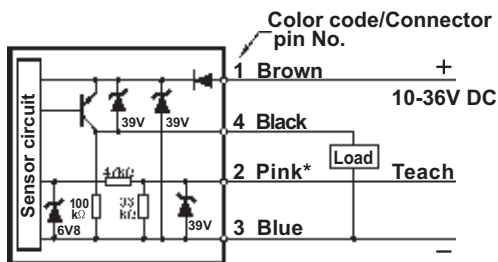
PICO-Style



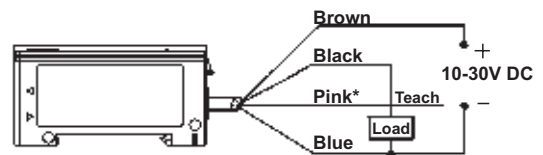
FOS3-DO140P-CX4C4U2 FOS3-DO140P-CX4Q4UP



1. I/O circuit diagram



2. Wiring diagram



3. Connector pin position

PICO-Style

