

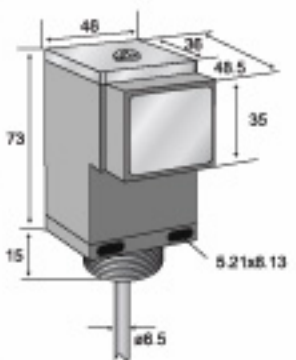
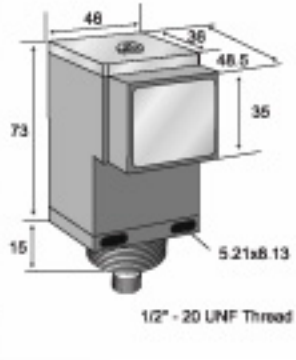
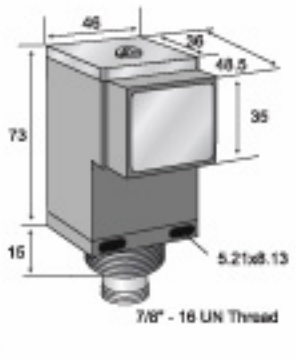
**Sensing Distance:
61 Meters (200 Feet)**
Through-Beam Mode

**Light Source:
Infrared, 880 nm**

Connection	Supply Voltage	Output Mode	Part Number	Diagrams
2m Cable 	10-40 VDC	Emitter	RP74-T061MD-EY9C3L2	
		NPN / PNP	RP74-T061MD-CY9C4U2	
		NPN / PNP with Timing	RP74-T061MD-CY9C4U2-T	
	12-240 VDC/ 24-240 VAC	Emitter	RP74-T061MA-EY9C2L2	
		SPDT Relay	RP74-T061MR-CY9C5L2	
		SPDT Relay with Timing	RP74-T061MR-CY9C5L2-T	
Micro AC/DC Connector 	10-40 VDC	Emitter	RP74-T061MD-EY9Q4LE	
		NPN / PNP	RP74-T061MD-CY9Q4UE	
		NPN / PNP with Timing	RP74-T061MD-CY9Q4UE-T	
	12-240 VDC/ 24-240 VAC	Emitter	RP74-T061MA-EY9Q4LM	
		SPDT Relay	RP74-T061MR-CY9Q4LM	
		SPDT Relay with Timing	RP74-T061MR-CY9Q4LM-T	
Mini Connector 	10-40 VDC	Emitter	RP74-T061MD-EY9Q4LN	
		NPN / PNP	RP74-T061MD-CY9Q4UN	
		NPN / PNP with Timing	RP74-T061MD-CY9Q4UN-T	
	12-240 VDC/ 24-240 VAC	Emitter	RP74-T061MA-EY9Q4LN	
		SPDT Relay	RP74-T061MR-CY9Q5LN	
		SPDT Relay with Timing	RP74-T061MR-CY9Q5LN-T	
		Solid State Isolated N.O.	RP74-T061MS-CY9Q4LN	
		Solid State Isolated N.O. w/ Timing	RP74-T061MS-CY9Q4LN-T	
		-	-	

**Sensing Distance:
152 Meters (498 Feet)**
Through-Beam Mode

**Light Source:
Infrared, 880 nm**

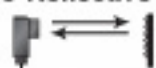
Connection	Supply Voltage	Output Mode	Part Number	Diagrams
2m Cable 	10-40 VDC	Emitter	RP74-T152MD-EY9C3L2	
		NPN / PNP	RP74-T152MD-CY9C4U2	
		NPN / PNP with Timing	RP74-T152MD-CY9C4U2-T	
	12-240 VDC/ 24-240 VAC	Emitter	RP74-T152MA-EY9C2L2	
		SPDT Relay	RP74-T152MR-CY9C5L2	
		SPDT Relay with Timing	RP74-T152MR-CY9C5L2-T	
		Solid State Isolated N.O.	RP74-T152MS-CY9C4L2	
Micro AC/DC Connector 	10-40 VDC	Emitter	RP74-T152MD-EY9Q4LE	
		NPN / PNP	RP74-T152MD-CY9Q4UE	
		NPN / PNP with Timing	RP74-T152MD-CY9Q4UE-T	
	12-240 VDC/ 24-240 VAC	Emitter	RP74-T152MA-EY9Q4LM	
		SPDT Relay	RP74-T152MS-CY9Q4LM	
		Solid State Isolated N.O.	RP74-T152MS-CY9Q4LM	
		Solid State Isolated N.O. w/ Timing	RP74-T152MS-CY9Q4LM-T	
Mini Connector 	10-40 VDC	Emitter	RP74-T152MD-EY9Q4LN	
		NPN / PNP	RP74-T152MD-CY9Q4UN	
		NPN / PNP with Timing	RP74-T152MD-CY9Q4UN-T	
	12-240 VDC/ 24-240 VAC	Emitter	RP74-T152MA-EY9Q4LN	
		SPDT Relay	RP74-T152MR-CY9Q5LN	
		SPDT Relay with Timing	RP74-T152MR-CY9Q5LN-T	
		Solid State Isolated N.O.	RP74-T152MS-CY9Q4LN	
		Solid State Isolated N.O. w/ Timing	RP74-T152MS-CY9Q4LN-T	

	Without Timing Delay	With Timing Delay
Sensing Range Adjustable	0.025...61m or 0.025...152m	
Field of View	15°	
Light Source	Infrared 880nm	
Indicator LEDs	Green: Power	
Response Time	5 ms	
Supply Voltage	10-40 VDC (Ripple<=10%)	
Output Type	NPN/PNP	
Max. Load Current	250 mA	
No Load Current	<30 mA	
Max. Leakage Current	<10 µA	
Voltage Drop	<2.5V	
Operation Mode	Light or Dark selectable via switch	
Housing Material	Glass fiber reinforced plastic	
Lens Material	Acrylic	
Cover Gasket Material	Neoprene	
Enclosure Rating	IP67	
Circuit Protection	Emitter: Vs reverse polarity protected Receiver: Outputs short circuit and over current protected, Vs reverse polarity protected	
Time Options	-	No Delay, On Delay, Off Delay, One-shot
Time Settings	-	Adjustable, 0.1 ...15s
Ambient Operating Temp.	-25°C to +55°C	
Storage Temp.	-40°C to +55°C	
Relative Humidity	5% to 95% RH	
EMC	IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m (in 30-1000MHz), EFT>1KV, ESD>4KV (contact)	
Voltage Withstandability	IEC 60947-5-2, Part 8.3.3.4 or 500 VDC for 1 min., between all supply terminals connected together and enclosure	
Insulation Resistance	>20MΩ, with 500 VDC megger between all supply terminals connected together and enclosure.	
Vibration Resistance	IEC 60947-5-2, Part 7.4.2 or 10-55 Hz, 1.0mm amplitude in x, y, and z directions for 30 min.	
Shock Resistance	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y, and z directions for six times each	

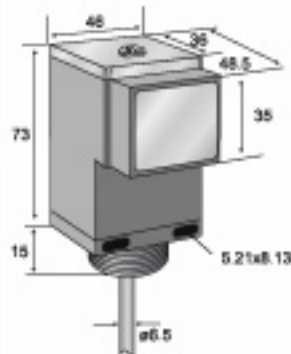
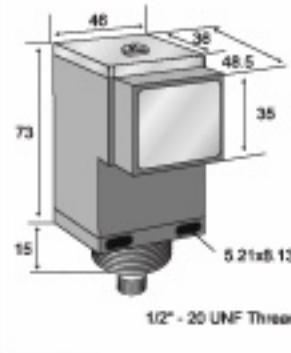
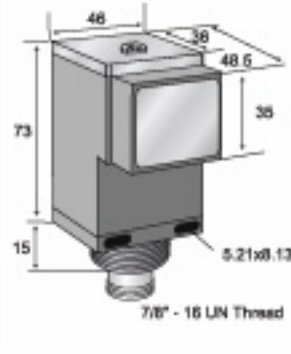
	Without Timing Delay	With Timing Delay
Sensing Range Adjustable	0.025...61m or 0.025...152m	
Field of View	15°	
Light Source	Infrared 880nm	
Indicator LEDs	Green: Power	
Response Time	SPDT EM Relay Output: 23ms Solid State Isolated N.O. : 15ms	
Supply Voltage	12-240 VDC / 24-240 VAC	
Output Type	SPDT EM Relay or Solid State Isolated N.O.	
Max. Load Current	SPDT EM Relay: 10A at 120VAC, 5A at 240 VAC, 10A at 28 VAC, Solid State Isolate N.O.: 300mA at 240 VDC/AC	
No Load Current	<30 mA	
Max. Leakage Current	SPDT EM Relay: 0; Solid State Isolate N.O.: 1mA at 240 VAC	
Voltage Drop	-	
Operation Mode	Light or Dark selectable via switch	
Housing Material	Glass fiber reinforced plastic	
Lens Material	Acrylic	
Cover Gasket Material	Neoprene	
Enclosure Rating	IP67	
Circuit Protection	-	
Time Options	-	No Delay, On Delay, Off Delay, One-shot
Time Settings	-	Adjustable, 0.1...15s
Ambient Operating Temp.	-25°C to +55°C	
Storage Temp.	-40°C to +55°C	
Relative Humidity	5% to 95% RH	
EMC	IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m (in 30-1000MHz), EFT>1KV, ESD>4KV (contact)	
Voltage Withstandability	IEC 60947-5-2, Part 8.3.3.4 or 1500 VAC for 1 min., between all supply terminals connected together and enclosure	
Insulation Resistance	>20MΩ, with 500 VDC megger between all supply terminals connected together and enclosure.	
Vibration Resistance	IEC 60947-5-2, Part 7.4.2 or 10-55 Hz, 1.0mm amplitude in x, y, and z directions for 30 min.	
Shock Resistance	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y, and z directions for six times each	

Sensing Distance:
9.14 Meters (30 Feet)

Retro-Reflective Mode



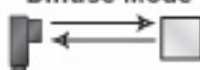
Light Source:
Red light, 660 nm

Connection	Supply Voltage	Output Mode	Part Number	Diagrams
2m Cable 	10-40 VDC	NPN / PNP	RP74-L9140D-CY6C4U2	
		NPN / PNP with Timing	RP74-L9140D-CY6C4U2-T	
		-	-	
	12-240 VDC/ 24-240 VAC	SPDT Relay	RP74-L9140R-CY6C5L2	
		SPDT Relay with Timing	RP74-L9140R-CY6C5L2-T	
		Solid State Isolated N.O.	RP74-L9140S-CY6C4L2	
		Solid State Isolated N.O. w/ Timing	RP74-L9140S-CY6C4L2-T	
Micro AC/DC Connector 	10-40 VDC	NPN / PNP	RP74-L9140D-CY6Q4UE	
		NPN / PNP with Timing	RP74-L9140D-CY6Q4UE-T	
		-	-	
	12-240 VDC/ 24-240 VAC	Solid State Isolated N.O.	RP74-L9140S-CY6Q4LM	
		Solid State Isolated N.O. w/ Timing	RP74-L9140S-CY6Q4LM-T	
		-	-	
Mini Connector 	10-40 VDC	NPN / PNP	RP74-L9140D-CY6Q4UN	
		NPN / PNP with Timing	RP74-L9140D-CY6Q4UN-T	
		-	-	
	12-240 VDC/ 24-240 VAC	SPDT Relay	RP74-L9140R-CY6Q5LN	
		SPDT Relay with Timing	RP74-L9140R-CY6Q5LN-T	
		Solid State Isolated N.O.	RP74-L9140S-CY6Q4LN	
		Solid State Isolated N.O. w/ Timing	RP74-L9140S-CY6Q4LN-T	
		-	-	

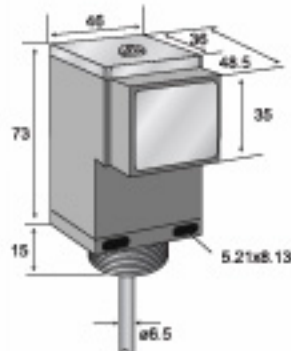
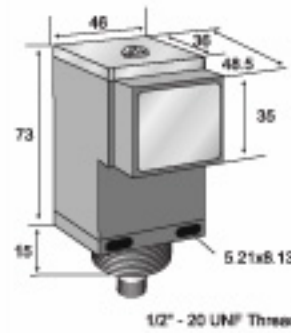
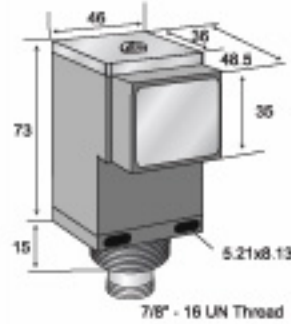
	DC		AC	
	Without Timing Delay	With Timing Delay	Without Timing Delay	With Timing Delay
Sensing Range	Retroreflective: 0.05...9.14m, Polarized Retro-reflective: 0.05...4.87m			
Field of View	1.5°			
Light Source	LED Visible Red 660nm			
Indicator LEDs	Green: Power, Yellow: Output, Red: Margin			
Response Time	2ms		SPDT EM Relay Output: 15ms, Solid State Isolated N.O. Output: 2ms	
Supply Voltage	10-40 VDC (Ripple<=10%)		12-240 VDC / 24-240 VAC	
Output Type	NPN / PNP		SPDT EM Relay or Solid State Isolated N.O.	
Max. Load Current	250 mA		SPDT EM Relay: 10A at 120 VAC, 5A at 240 VAC, 10A at 28 VAC, Solid State Isolated N.O.: 300mA at 240 VDC/AC	
No Load Current	<30 mA			
Max. Leakage Current	<10 µA		SPDT EM Relay: 0, Solid State Isolated N.O.: 1mA at 240 VAC	
Voltage Drop	<2.5 V		-	
Operation Mode	Light or Dark Switching selectable via switch			
Housing Material	Glass fiber reinforced plastic			
Lens Material	Acrylic			
Cover Gasket Material	Neoprene			
Enclosure Rating	IP 67			
Circuit Protection	Outputs short circuit and over current protected, VS reverse Polarity protected		-	
Time Options	-	No delay, On delay, Off delay, One-shot	-	No delay, On delay, Off delay, One-shot
Time Settings	-	Adjustable, 0.1...15s	-	Adjustable, 0.1...15s
Ambient Operating Temp.	-25...+55°C			
Storage Temp.	-40...+70°C			
Relative Humidity	5% to 95% RH			
EMC	IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m (in 30-1000MHz), EFT>1KV, ESD>4KV (contact)			
Voltage Withstandability	IEC 60947-5-2, Part 8.3.3.4 or 500 VDC for 1 min., between all supply terminals connected together and enclosure		IEC 60947-5-2, Part 8.3.3.4 or 1500 VAC for 1 min., between all supply terminals connected together and enclosure	
Insulation Resistance	>20MΩ, with 500 VDC megger between all supply terminals connected together and enclosure.		IEC 60947-5-2, Part 8.3.3.4 or 1500 VAC for 1 min., between all supply terminals connected together and enclosure	
Vibration Resistance	IEC 60947-5-2, Part 7.4.2 or 10-55 Hz, 1.0mm amplitude in x, y, and z directions for 30 min.		IEC 60947-5-2, Part 7.4.2 or 10-55 Hz, 1.0mm amplitude in x, y, and z directions for 30 min.	
Shock Resistance	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y, and z directions for six times each		IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y, and z directions for six times each	

Sensing Distance:
3.04 Meters (10 Feet)

Diffuse Mode



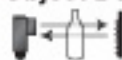
Light Source:
Red light, 880 nm

Connection	Supply Voltage	Output Mode	Part Number	Diagrams
2m Cable 	10-40 VDC	NPN / PNP	RP74-D3040D-CY9C4U2	
		NPN / PNP with Timing	RP74-D3040D-CY9C4U2-T	
		-	-	
	12-240 VDC/ 24-240 VAC	SPDT Relay	RP74-D3040R-CY9C5L2	
		SPDT Relay with Timing	RP74-D3040R-CY9C5L2-T	
		Solid State Isolated N.O.	RP74-D3040S-CY9C4L2	
		Solid State Isolated N.O. w/ Timing	RP74-D3040S-CY9C4L2-T	
		-	-	
Micro AC/DC Connector 	10-40 VDC	NPN / PNP	RP74-D3040D-CY9Q4UE	
		NPN / PNP with Timing	RP74-D3040D-CY9Q4UE-T	
		-	-	
	12-240 VDC/ 24-240 VAC	Solid State Isolated N.O.	RP74-D3040S-CY9Q4LM	
		Solid State Isolated N.O. w/ Timing	RP74-D3040S-CY9Q4LM-T	
		-	-	
		-	-	
		-	-	
Mini Connector 	10-40 VDC	NPN / PNP	RP74-D3040D-CY9Q4UN	
		NPN / PNP with Timing	RP74-D3040D-CY9Q4UN-T	
		-	-	
	12-240 VDC/ 24-240 VAC	SPDT Relay	RP74-D3040R-CY9Q5LN	
		SPDT Relay with Timing	RP74-D3040R-CY9Q5LN-T	
		Solid State Isolated N.O.	RP74-D3040S-CY9Q4LN	
		Solid State Isolated N.O. w/ Timing	RP74-D3040S-CY9Q4LN-T	
		-	-	

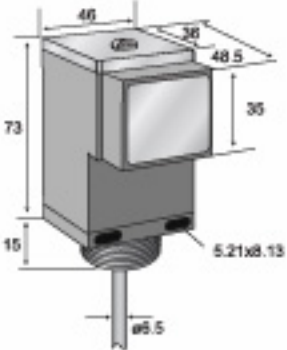
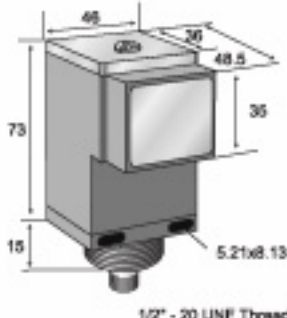
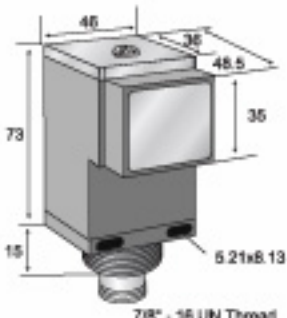
	DC		AC	
	Without Timing Delay	With Timing Delay	Without Timing Delay	With Timing Delay
Sensing Range	Standard Diffuse: 0.05...1.52m, Long Range Diffuse: 0.05...3.04m			
Field of View	Standard Diffuse: 3.5°, Long Range Diffuse: 6.5°			
Light Source	LED Visible Red 880nm			
Indicator LEDs	Green: Power, Yellow: Output, Red: Margin			
Response Time	2ms		SPDT EM Relay Output: 15ms, Solid State Isolated N.O. Output: 2ms	
Supply Voltage	10-40 VDC (Ripple<=10%)		12-240 VDC / 24-240 VAC	
Output Type	NPN / PNP		SPDT EM Relay or Solid State Isolated N.O.	
Max. Load Current	250 mA		SPDT EM Relay: 10A at 120 VAC, 5A at 240 VAC, 10A at 28 VAC, Solid State Isolated N.O.: 300mA at 240 VDC/AC	
No Load Current	<30 mA			
Max. Leakage Current	<10 µA		SPDT EM Relay: 0, Solid State Isolated N.O.: 1mA at 240 VAC	
Voltage Drop	<2.5 V		-	
Operation Mode	Light or Dark Switching selectable via switch			
Housing Material	Glass fiber reinforced plastic			
Lens Material	Acrylic			
Cover Gasket Material	Neoprene			
Enclosure Rating	IP 67			
Circuit Protection	Outputs short circuit and over current protected, VS reverse Polarity protected		-	
Time Options	-	No delay, On delay, Off delay, One-shot	-	No delay, On delay, Off delay, One-shot
Time Settings	-	Adjustable, 0.1...15s	-	Adjustable, 0.1...15s
Ambient Operating Temp.	-25...+55°C			
Storage Temp.	-40...+70°C			
Relative Humidity	5% to 95% RH			
EMC	IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m (in 30-1000MHz), EFT>1KV, ESD>4KV (contact)			
Voltage Withstandability	IEC 60947-5-2, Part 8.3.3.4 or 500 VDC for 1 min., between all supply terminals connected together and enclosure		IEC 60947-5-2, Part 8.3.3.4 or 1500 VAC for 1 min., between all supply terminals connected together and enclosure	
Insulation Resistance	>20MΩ, with 500 VDC megger between all supply terminals connected together and enclosure.		>20MΩ, with 1500 VAC megger between all supply terminals connected together and enclosure.	
Vibration Resistance	IEC 60947-5-2, Part 7.4.2 or 10-55 Hz, 1.0mm amplitude in x, y, and z directions for 30 min.		IEC 60947-5-2, Part 7.4.2 or 10-55 Hz, 1.0mm amplitude in x, y, and z directions for 30 min.	
Shock Resistance	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y, and z directions for six times each		IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y, and z directions for six times each	

Sensing Distance:
1.20 Meters (3.9 Feet)

Clear Object Detection



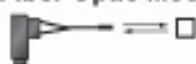
Light Source:
Red light, 660 nm

Connection	Supply Voltage	Output Mode	Part Number	Diagrams
2m Cable 	10-40 VDC	NPN / PNP	RP74-S1200D-CY6C4U2	
		NPN / PNP with Timing	RP74-S1200D-CY6C4U2-T	
		-	-	
	12-240 VDC/ 24-240 VAC	SPDT Relay	RP74-S1200R-CY6C5L2	
		SPDT Relay with Timing	RP74-S1200R-CY6C5L2-T	
		Solid State Isolated N.O.	RP74-S1200S-CY6C4L2	
Micro AC/DC Connector 	10-40 VDC	NPN / PNP	RP74-S1200D-CY6Q4UE	
		NPN / PNP with Timing	RP74-S1200D-CY6Q4UE-T	
		-	-	
	12-240 VDC/ 24-240 VAC	Solid State Isolated N.O.	RP74-S1200S-CY6Q4LM	
		Solid State Isolated N.O. w/ Timing	RP74-S1200S-CY6Q4LM-T	
		-	-	
Mini Connector 	10-40 VDC	NPN / PNP	RP74-S1200D-CY6Q4UN	
		NPN / PNP with Timing	RP74-S1200D-CY6Q4UN-T	
		-	-	
	12-240 VDC/ 24-240 VAC	SPDT Relay	RP74-S1200R-CY6Q5LN	
		SPDT Relay with Timing	RP74-S1200R-CY6Q5LN-T	
		Solid State Isolated N.O.	RP74-S1200S-CY6Q4LN	
		Solid State Isolated N.O. w/ Timing	RP74-S1200S-CY6Q4LN-T	
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		-	-	

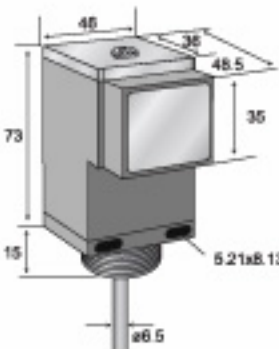
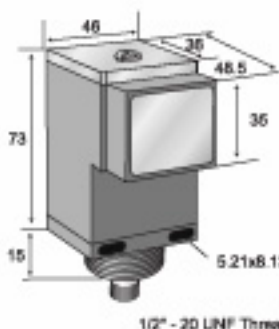
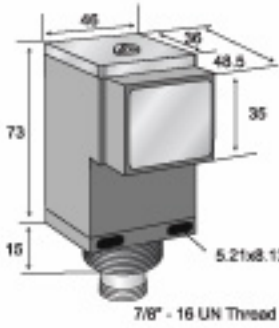
	DC		AC	
	Without Timing Delay	With Timing Delay	Without Timing Delay	With Timing Delay
Sensing Range	0-1.2m			
Field of View	1.5°			
Light Source	LED Visible Red 660nm			
Indicator LEDs	Green: Power, Yellow: Output, Red: Margin			
Response Time	2ms		SPDT EM Relay Output: 15ms, Solid State Isolated N.O. Output: 2ms	
Supply Voltage	10-40 VDC (Ripple<=10%)		12-240 VDC / 24-240 VAC	
Output Type	NPN / PNP		SPDT EM Relay or Solid State Isolated N.O.	
Max. Load Current	250 mA		SPDT EM Relay: 10A at 120 VAC, 5A at 240 VAC, 10A at 28 VAC, Solid State Isolated N.O.: 300mA at 240 VDC/AC	
No Load Current	<30 mA			
Max. Leakage Current	<10 µA		SPDT EM Relay: 0, Solid State Isolated N.O.: 1mA at 240 VAC	
Voltage Drop	<2.5 V		-	
Operation Mode	Light or Dark Switching selectable via switch			
Housing Material	Glass fiber reinforced plastic			
Lens Material	Acrylic			
Cover Gasket Material	Neoprene			
Enclosure Rating	IP 67			
Circuit Protection	Outputs short circuit and over current protected, VS reverse Polarity protected		-	
Time Options	-	No delay, On delay, Off delay, One-shot	-	No delay, On delay, Off delay, One-shot
Time Settings	-	Adjustable, 0.1...15s	-	Adjustable, 0.1...15s
Ambient Operating Temp.	-25...+55°C			
Storage Temp.	-40...+70°C			
Relative Humidity	5% to 95% RH			
EMC	IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m (in 30-1000MHz), EFT>1KV, ESD>4KV (contact)			
Voltage Withstandability	IEC 60947-5-2, Part 8.3.3.4 or 500 VDC for 1 min., between all supply terminals connected together and enclosure		IEC 60947-5-2, Part 8.3.3.4 or 1500 VAC for 1 min., between all supply terminals connected together and enclosure	
Insulation Resistance	>20MΩ, with 500 VDC megger between all supply terminals connected together and enclosure.		>20MΩ, with 1500 VAC megger between all supply terminals connected together and enclosure.	
Vibration Resistance	IEC 60947-5-2, Part 7.4.2 or 10-55 Hz, 1.0mm amplitude in x, y, and z directions for 30 min.		IEC 60947-5-2, Part 7.4.2 or 10-55 Hz, 1.0mm amplitude in x, y, and z directions for 30 min.	
Shock Resistance	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y, and z directions for six times each		IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y, and z directions for six times each	

Sensing Distance:
Depends on Fiber Used

Fiber Optic Mode



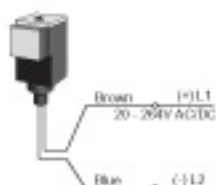
Light Source:
Infrared, 880 nm

Connection	Supply Voltage	Output Mode	Part Number	Diagrams
2m Cable 	10-40 VDC	NPN / PNP	RP74-FGFD-CY9C4U2	
		NPN / PNP with Timing	RP74-FGFD-CY9C4U2-T	
		-	-	
	12-240 VDC/ 24-240 VAC	SPDT Relay	RP74-FGFD-CY9C5L2	
		SPDT Relay with Timing	RP74-FGFD-CY9C5L2-T	
		Solid State Isolated N.O.	RP74-FGFD-CY9C4L2	
		Solid State Isolated N.O. w/ Timing	RP74-FGFD-CY9C4L2-T	
Micro AC/DC Connector 	10-40 VDC	NPN / PNP	RP74-FGFD-CY9Q4UE	
		NPN / PNP with Timing	RP74-FGFD-CY9Q4UE-T	
		-	-	
	12-240 VDC/ 24-240 VAC	Solid State Isolated N.O.	RP74-FGFD-CY9Q4LM	
		Solid State Isolated N.O. w/ Timing	RP74-FGFD-CY9Q4LM-T	
		-	-	
Mini Connector 	10-40 VDC	NPN / PNP	RP74-FGFD-CY9Q4UN	
		NPN / PNP with Timing	RP74-FGFD-CY9Q4UN-T	
		-	-	
	12-240 VDC/ 24-240 VAC	SPDT Relay	RP74-FGFD-CY9Q5LN	
		SPDT Relay with Timing	RP74-FGFD-CY9Q5LN-T	
		Solid State Isolated N.O.	RP74-FGFD-CY9Q4LN	
		Solid State Isolated N.O. w/ Timing	RP74-FGFD-CY9Q4LN-T	
		-	-	

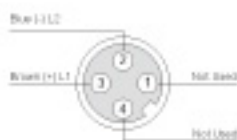
	DC		AC	
	Without Timing Delay	With Timing Delay	Without Timing Delay	With Timing Delay
Sensing Range	Depends on Fiber optic Cable			
Field of View	-			
Light Source	Visible Red 660nm or Infrared 880nm			
Indicator LEDs	Green: Power, Yellow: Output, Red: Margin			
Response Time	2ms		SPDT EM Relay Output: 15ms, Solid State Isolated N.O. Output: 2ms	
Supply Voltage	10-40 VDC (Ripple<=10%)		12-240 VDC / 24-240 VAC	
Output Type	NPN / PNP		SPDT EM Relay or Solid State Isolated N.O.	
Max. Load Current	250 mA		SPDT EM Relay: 10A at 120 VAC, 5A at 240 VAC, 10A at 28 VAC, Solid State Isolated N.O.: 300mA at 240 VDC/AC	
No Load Current	<30 mA			
Max. Leakage Current	<10 μ A		SPDT EM Relay: 0, Solid State Isolated N.O.: 1mA at 240 VAC	
Voltage Drop	<2.5 V		-	
Operation Mode	Light or Dark Switching selectable via switch			
Housing Material	Glass fiber reinforced plastic			
Lens Material	Acrylic			
Cover Gasket Material	Neoprene			
Enclosure Rating	IP 67			
Circuit Protection	Outputs short circuit and over current protected, VS reverse Polarity protected		-	
Time Options	-	No delay, On delay, Off delay, One-shot	-	No delay, On delay, Off delay, One-shot
Time Settings	-	Adjustable, 0.1...15s	-	Adjustable, 0.1...15s
Ambient Operating Temp.	-25...+55°C			
Storage Temp.	-40...+70°C			
Relative Humidity	5% to 95% RH			
EMC	IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m (in 30-1000MHz), EFT>1KV, ESD>4KV (contact)			
Voltage Withstandability	IEC 60947-5-2, Part 8.3.3.4 or 500 VDC for 1 min., between all supply terminals connected together and enclosure		IEC 60947-5-2, Part 8.3.3.4 or 1500 VAC for 1 min., between all supply terminals connected together and enclosure	
Insulation Resistance	>20M Ω , with 500 VDC megger between all supply terminals connected together and enclosure.		>20M Ω , with 1500 VAC megger between all supply terminals connected together and enclosure.	
Vibration Resistance	IEC 60947-5-2, Part 7.4.2 or 10-55 Hz, 1.0mm amplitude in x, y, and z directions for 30 min.		IEC 60947-5-2, Part 7.4.2 or 10-55 Hz, 1.0mm amplitude in x, y, and z directions for 30 min.	
Shock Resistance	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y, and z directions for six times each		IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y, and z directions for six times each	

Connection Diagrams

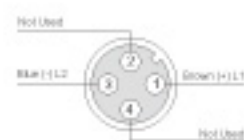
Emitter (AC)



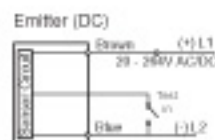
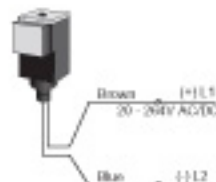
Mini Quick-disconnect (7/8 -16 UN)



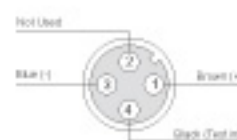
Micro AC Quick-disconnect (1/2 -20 UN)



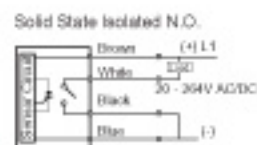
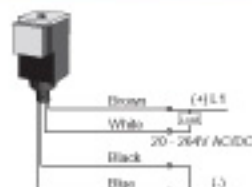
Emitter (DC)



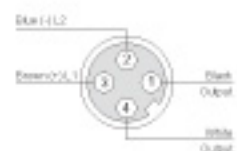
Mini DC Quick-disconnect (M12)



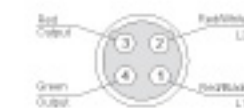
Solid State Isolated N.O.



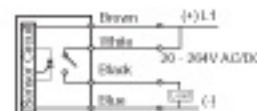
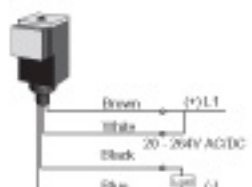
Mini Quick-disconnect (7/8 -16 UN)



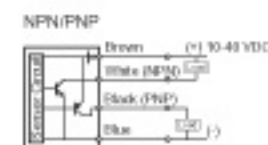
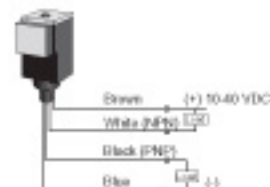
Micro AC Quick-disconnect (1/2 -20 UN)



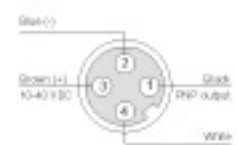
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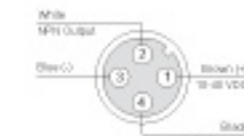
NPN/PNP



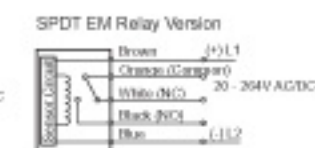
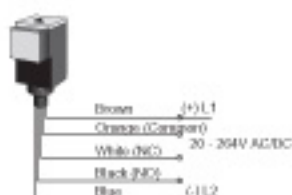
Mini Quick-disconnect (7/8 -16 UN)



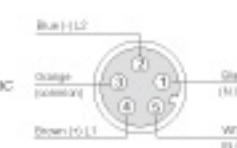
Micro DC Quick-disconnect (M12)



SPDT EM Relay Version



Mini Quick-disconnect (7/8 -16 UN)



Micro AC Quick-disconnect (1/2 -20 UN)

