

## Thru-beam Mode

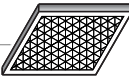
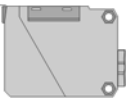



Ah: RS76 SERIES

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number	
Red Light 660nm	Terminal	10-30V DC	Emitter	<u>RS76-T035MD-EY6T5L</u>	
			NPN L.O./D.O.	<u>RS76-T035MN-CY6T5U</u>	
			PNP L.O./D.O.	<u>RS76-T035MP-CY6T5U</u>	
			NPN/PNP L.O./D.O.	<u>RS76-T035MD-CY6T5U</u>	
			NPN , Timing delay	<u>RS76-T035MN-CY6T5U-T</u>	
			PNP , Timing delay	<u>RS76-T035MP-CY6T5U-T</u>	
			NPN/PNP,Timing delay	<u>RS76-T035MD-CY6T5U-T</u>	
	12-240V DC/ 24-240V AC	Emitter (2-wire)	<u>RS76-T045MC-EY6T5L</u>		
		Relay L.O./D.O. (5-wire)	<u>RS76-T045MR-CY6T5L</u>		
		Relay,Timing delay (5-wire)	<u>RS76-T045MR-CY6T5L-T</u>		
		SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-T045MC-CY6T5U</u>		
		QuickDisconnect (0°or90° settled)	10-30V DC (Euro Style)	Emitter	<u>RS76-T035MD-EY6Q4LE</u>
				NPN L.O./D.O.	<u>RS76-T035MN-CY6Q4UE</u>
				PNP L.O./D.O.	<u>RS76-T035MP-CY6Q4UE</u>
NPN/PNP L.O./D.O.	<u>RS76-T035MD-CY6Q4UE</u>				
NPN , Timing delay	<u>RS76-T035MN-CY6Q4UE-T</u>				
PNP , Timing delay	<u>RS76-T035MP-CY6Q4UE-T</u>				
12-240V DC/ 24-240V AC (Micro Style)	Emitter (2-wire)	<u>RS76-T045MC-EY6Q4LM</u>			
	Relay L.O./D.O. (5-wire)	<u>RS76-T045MR-CY6Q5LM</u>			
	Relay,Timing delay (5-wire)	<u>RS76-T045MR-CY6Q5LM-T</u>			
	SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-T045MC-CY6Q4UM</u>			
Thru-beam Mode Sensing Distance: 35m (DC),45m (AC/DC)	6" Pigtail	10-30V DC (Euro Style)	Emitter	<u>RS76-T035MD-EY6P4LE</u>	
			NPN L.O./D.O.	<u>RS76-T035MN-CY6P4UE</u>	
			PNP L.O./D.O.	<u>RS76-T035MP-CY6P4UE</u>	
			NPN/PNP L.O./D.O.	<u>RS76-T035MD-CY6P4UE</u>	
			NPN , Timing delay	<u>RS76-T035MN-CY6P4UE-T</u>	
			PNP , Timing delay	<u>RS76-T035MP-CY6P4UE-T</u>	
			NPN/PNP,Timing delay	<u>RS76-T035MD-CY6P4UE-T</u>	
	12-240V DC/ 24-240V AC (Micro Style)	Emitter (2-wire)	<u>RS76-T045MC-EY6P4LM</u>		
		Relay L.O./D.O. (5-wire)	<u>RS76-T045MR-CY6P5LM</u>		
		Relay,Timing delay (5-wire)	<u>RS76-T045MR-CY6P5LM-T</u>		
		SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-T045MC-CY6P4UM</u>		

**Note:**

Coming Soon : Part numbers with underline  
 In Preparation: Part numbers with a line through the middle  
 — Ah-01 —

## Retroreflective Mode with Polarizing Filter

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
<p style="text-align: center;"><b>LED Red: 660nm</b></p>  <p style="text-align: center;">15 m (Mute input type: 12m)</p>  <p style="text-align: center;"><b>Retro-reflective Mode with Polarizing Filter</b> Sensing Distance: 15m (Note)</p>	<p>Terminal</p> 	10-30V DC	NPN L.O./D.O.	<u>RS76-L015MN-CY6T5U-PF</u>
			PNP L.O./D.O.	<u>RS76-L015MP-CY6T5U-PF</u>
			NPN/PNP L.O./D.O.	<u>RS76-L015MD-CY6T5U-PF</u>
			NPN , Timing delay	<u>RS76-L015MN-CY6T5U-TP</u>
			PNP , Timing delay	<u>RS76-L015MP-CY6T5U-TP</u>
			NPN/PNP, Timing delay	<u>RS76-L015MD-CY6T5U-TP</u>
		12-240V DC/ 24-240V AC	Relay L.O./D.O. (5-wire)	<u>RS76-L015MR-CY6T5L-PF</u>
			Relay, Timing delay (5-wire)	<u>RS76-L015MR-CY6T5L-TP</u>
			SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-L015MC-CY6T5U-PF</u>
	24V DC/ 24V AC	Relay output with Mute Input (5-wire)	<u>RS76-L012MR-CY6T5L-PF/MU</u>	
	<p>QuickDisconnect (0° or 90° settled)</p> 	10-30V DC (Euro Style)	NPN L.O./D.O.	<u>RS76-L015MN-CY6Q4UE-PF</u>
			PNP L.O./D.O.	<u>RS76-L015MP-CY6Q4UE-PF</u>
			NPN/PNP L.O./D.O.	<u>RS76-L015MD-CY6Q4UE-PF</u>
			NPN , Timing delay	<u>RS76-L015MN-CY6Q4UE-TP</u>
			PNP , Timing delay	<u>RS76-L015MP-CY6Q4UE-TP</u>
			NPN/PNP, Timing delay	<u>RS76-L015MD-CY6Q4UE-TP</u>
		12-240V DC/ 24-240V AC (Micro Style)	Relay L.O./D.O. (5-wire)	<u>RS76-L015MR-CY6Q5LM-PF</u>
			Relay, Timing delay (5-wire)	<u>RS76-L015MR-CY6Q5LM-TP</u>
			SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-L015MC-CY6Q4UM-PF</u>
		24V DC/24V AC (Micro Style)	Relay output with Mute Input (5-wire)	<u>RS76-L012MR-CY6Q5LM-PF/MU</u>
		<p>6" Pigtail</p> 	10-30V DC (Euro Style)	NPN L.O./D.O.
PNP L.O./D.O.				<u>RS76-L015MP-CY6P4UE-PF</u>
NPN/PNP L.O./D.O.	<u>RS76-L015MD-CY6P4UE-PF</u>			
NPN , Timing delay	<u>RS76-L015MN-CY6P4UE-TP</u>			
PNP , Timing delay	<u>RS76-L015MP-CY6P4UE-TP</u>			
NPN/PNP, Timing delay	<u>RS76-L015MD-CY6P4UE-TP</u>			
12-240V DC/ 24-240V AC (Micro Style)	Relay L.O./D.O. (5-wire)		<u>RS76-L015MR-CY6P5LM-PF</u>	
	Relay, Timing delay (5-wire)		<u>RS76-L015MR-CY6P5LM-TP</u>	
	SPST Solid-state L.O./D.O. (2-wire)		<u>RS76-L015MC-CY6P4UM-PF</u>	
24V DC/24V AC (Micro Style)	Relay output with Mute Input (5-wire)		<u>RS76-L012MR-CY6P5LM-PF/MU</u>	

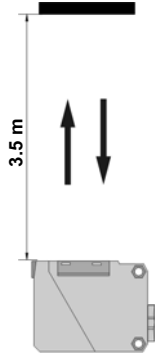



**Note:** Used with RE-6152 (supplied with sensor) reflector.

Coming Soon : Part numbers with underline

In Preparation: Part numbers with a line through the middle

## Long Range Diffuse Mode (Sn=3.5m)





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Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
<p style="text-align: center;">Infrared: 880nm</p>  <p style="text-align: center;">Long Range Diffuse Mode Sensing Distance: 3.5 m</p>	<p>Terminal</p> 	<p>10-30V DC</p>	NPN L.O./D.O.	<u>RS76-D3500N-CY9T5U</u>
			PNP L.O./D.O.	<u>RS76-D3500P-CY9T5U</u>
			NPN/PNPL.O./D.O.	<u>RS76-D3500D-CY9T5U</u>
			NPN , Timing delay	<u>RS76-D3500N-CY9T5U-T</u>
			PNP , Timing delay	<u>RS76-D3500P-CY9T5U-T</u>
			NPN/PNP, Timing delay	<u>RS76-D3500D-CY9T5U-T</u>
	<p>12-240V DC/ 24-240V AC</p>	Relay L.O./D.O. (5-wire)	<u>RS76-D3500R-CY9T5L</u>	
		Relay, Timing delay (5-wire)	<u>RS76-D3500R-CY9T5L-T</u>	
		SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-D3500C-CY9T5U</u>	
	<p>QuickDisconnect (0° or 90° settled)</p> 	<p>10-30V DC (Euro Style)</p>	NPN L.O./D.O.	<u>RS76-D3500N-CY9Q4UE-T</u>
			PNP L.O./D.O.	<u>RS76-D3500P-CY9Q4UE-T</u>
			NPN/PNPL.O./D.O.	<u>RS76-D3500N-CY9Q4UE</u>
			NPN , Timing delay	<u>RS76-D3500P-CY9Q4UE</u>
			PNP , Timing delay	<u>RS76-D3500R-CY9Q5LM-T</u>
			NPN/PNP, Timing delay	<u>RS76-D3500D-CY9Q4UE</u>
		<p>12-240V DC/ 24-240V AC (Micro Style)</p>	Relay L.O./D.O. (5-wire)	<u>RS76-D3500R-CY9Q4UE-T</u>
			Relay, Timing delay (5-wire)	<u>RS76-D3500R-CY9Q5LM</u>
			SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-D3500C-CY9Q4UM</u>
	<p>6" Pigtail</p> 	<p>10-30V DC (Euro Style)</p>	NPN L.O./D.O.	<u>RS76-D3500N-CY9P4UE</u>
			PNP L.O./D.O.	<u>RS76-D3500P-CY9P4UE</u>
			NPN/PNPL.O./D.O.	<u>RS76-D3500D-CY9P4UE</u>
NPN , Timing delay			<u>RS76-D3500N-CY9P4UE-T</u>	
PNP , Timing delay			<u>RS76-D3500P-CY9P4UE-T</u>	
NPN/PNP, Timing delay			<u>RS76-D3500D-CY9P4UE-T</u>	
<p>12-240V DC/ 24-240V AC (Micro Style)</p>		Relay L.O./D.O. (5-wire)	<u>RS76-D3500R-CY9P5LM</u>	
		Relay, Timing delay (5-wire)	<u>RS76-D3500R-CY9P5LM-T</u>	
		SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-D3500C-CY9P4UM</u>	

**Note:**

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## Standard Diffuse Mode (Sn=1.7m)





Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
<p style="text-align: center;">LED Red: 660nm</p>  <p style="text-align: center;">Standard Diffuse Mode Sensing Distance: 1.7 m</p>	<p>Terminal</p> 	10-30V DC	NPN L.O./D.O.	<u>RS76-D1700N-CY6T5U</u>
			PNP L.O./D.O.	<u>RS76-D1700P-CY6T5U</u>
			NPN/PNP L.O./D.O.	<u>RS76-D1700D-CY6T5U</u>
			NPN , Timing delay	<u>RS76-D1700N-CY6T5U-T</u>
			PNP , Timing delay	<u>RS76-D1700P-CY6T5U-T</u>
			NPN/PNP, Timing delay	<u>RS76-D1700D-CY6T5U-T</u>
		12-240V DC/ 24-240V AC	Relay L.O./D.O. (5-wire)	<u>RS76-D1700R-CY6T5L</u>
			Relay, Timing delay (5-wire)	<u>RS76-D1700R-CY6T5L-T</u>
			SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-D1700C-CY6T5U</u>
	<p>QuickDisconnect (0° or 90° settled)</p> 	10-30V DC (Euro Style)	NPN L.O./D.O.	<u>RS76-D1700N-CY6Q4UE</u>
			PNP L.O./D.O.	<u>RS76-D1700P-CY6Q4UE</u>
			NPN/PNP L.O./D.O.	<u>RS76-D1700D-CY6Q4UE</u>
			NPN , Timing delay	<u>RS76-D1700N-CY6Q4UE-T</u>
			PNP , Timing delay	<u>RS76-D1700P-CY6Q4UE-T</u>
			NPN/PNP, Timing delay	<u>RS76-D1700D-CY6Q4UE-T</u>
		12-240V DC/ 24-240V AC (Micro Style)	Relay L.O./D.O. (5-wire)	<u>RS76-D1700R-CY6Q5LM</u>
			Relay, Timing delay (5-wire)	<u>RS76-D1700R-CY6Q5LM-T</u>
			SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-D1700C-CY6Q4UM</u>
	<p>6" Pigtail</p> 	10-30V DC (Euro Style)	NPN L.O./D.O.	<u>RS76-D1700N-CY6P4UE</u>
			PNP L.O./D.O.	<u>RS76-D1700P-CY6P4UE</u>
			NPN/PNP L.O./D.O.	<u>RS76-D1700D-CY6P4UE</u>
NPN , Timing delay			<u>RS76-D1700N-CY6P4UE-T</u>	
PNP , Timing delay			<u>RS76-D1700P-CY6P4UE-T</u>	
NPN/PNP, Timing delay			<u>RS76-D1700D-CY6P4UE-T</u>	
12-240V DC/ 24-240V AC (Micro Style)		Relay L.O./D.O. (5-wire)	<u>RS76-D1700R-CY6P5LM</u>	
		Relay, Timing delay (5-wire)	<u>RS76-D1700R-CY6P5LM-T</u>	
		SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-D1700C-CY6P4UM</u>	

**Note:**

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 In Preparation: Part numbers with a line through the middle

## Diffuse Mode with Background Suppression (Standard Range)

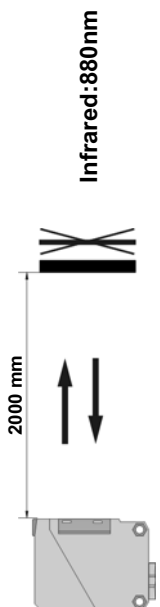



Ah: RS76 SERIES

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number		
<p>Infrared: 880nm</p>  <p>380mm</p> <p>Diffuse Mode with Background Suppression Sensing Distance: 380mm</p>	<p>Terminal</p> 	<p>10-30V DC</p>	NPN L.O./D.O.	<u>RS76-D0380N-CY9T5U-BS</u>		
			PNP L.O./D.O.	<u>RS76-D0380P-CY9T5U-BS</u>		
			NPN/PNP L.O./D.O.	<u>RS76-D0380D-CY9T5U-BS</u>		
			NPN , Timing delay	<u>RS76-D0380N-CY9T5U-BT</u>		
			PNP , Timing delay	<u>RS76-D0380P-CY9T5U-BT</u>		
			NPN/PNP, Timing delay	<u>RS76-D0380D-CY9T5U-BT</u>		
	<p>QuickDisconnect (0° or 90° settled)</p> 	<p>10-30V DC (Euro Style)</p>	NPN L.O./D.O.	<u>RS76-D0380N-CY9Q4UE-BS</u>		
			PNP L.O./D.O.	<u>RS76-D0380P-CY9Q4UE-BS</u>		
			NPN/PNP L.O./D.O.	<u>RS76-D0380D-CY9Q4UE-BS</u>		
			NPN , Timing delay	<u>RS76-D0380N-CY9Q4UE-BT</u>		
			PNP , Timing delay	<u>RS76-D0380P-CY9Q4UE-BT</u>		
			NPN/PNP, Timing delay	<u>RS76-D0380D-CY9Q4UE-BT</u>		
	<p>6" Pigtail</p> 	<p>10-30V DC (Euro Style)</p>	NPN L.O./D.O.	<u>RS76-D0380N-CY9P4UE-BS</u>		
			PNP L.O./D.O.	<u>RS76-D0380P-CY9P4UE-BS</u>		
			NPN/PNP L.O./D.O.	<u>RS76-D0380D-CY9P4UE-BS</u>		
			NPN , Timing delay	<u>RS76-D0380N-CY9P4UE-BT</u>		
			PNP , Timing delay	<u>RS76-D0380P-CY9P4UE-BT</u>		
			NPN/PNP, Timing delay	<u>RS76-D0380D-CY9P4UE-BT</u>		
	<p>12-240V DC / 24-240V AC</p>	<p>Relay L.O./D.O. (5-wire)</p>	Relay L.O./D.O. (5-wire)	<u>RS76-D0380R-CY9T5L-BS</u>		
			Relay, Timing delay (5-wire)	<u>RS76-D0380R-CY9T5L-BT</u>		
			SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-D0380C-CY9T5U-BS</u>		
			<p>12-240V DC / 24-240V AC (Micro Style)</p>	<p>Relay L.O./D.O. (5-wire)</p>	Relay L.O./D.O. (5-wire)	<u>RS76-D0380R-CY9Q5LM-BS</u>
					Relay, Timing delay (5-wire)	<u>RS76-D0380R-CY9Q5LM-BT</u>
					SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-D0380C-CY9Q4UM-BS</u>
<p>12-240V DC / 24-240V AC (Micro Style)</p>	<p>Relay L.O./D.O. (5-wire)</p>	Relay L.O./D.O. (5-wire)			<u>RS76-D0380R-CY9P5LM-BS</u>	
		Relay, Timing delay (5-wire)			<u>RS76-D0380R-CY9P5LM-BT</u>	
		SPST Solid-state L.O./D.O. (2-wire)			<u>RS76-D0380C-CY9P4UM-BS</u>	

**Note:**

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## Diffuse Mode with Background Suppression (Long Range)

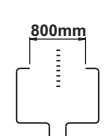
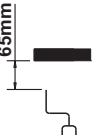



Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
<p style="text-align: center;">Infrared: 880nm</p>  <p style="text-align: center;">2000 mm</p> <p style="text-align: center;">Diffuse Mode with Background Suppression Sensing Distance: 2000 mm</p>	<p>Terminal</p> 	10-30V DC	NPN L.O./D.O.	<u>RS76-D2000N-CY9T5U-BS</u>
			PNP L.O./D.O.	<u>RS76-D2000P-CY9T5U-BS</u>
			NPN/PNP L.O./D.O.	<u>RS76-D2000D-CY9T5U-BS</u>
			NPN , Timing delay	<u>RS76-D2000N-CY9T5U-BT</u>
			PNP , Timing delay	<u>RS76-D2000P-CY9T5U-BT</u>
			NPN/PNP, Timing delay	<u>RS76-D2000D-CY9T5U-BT</u>
		12-240V DC/ 24-240V AC	Relay L.O./D.O. (5-wire)	<u>RS76-D2000R-CY9T5L-BS</u>
			Relay, Timing delay (5-wire)	<u>RS76-D2000R-CY9T5L-BT</u>
			SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-D2000C-CY9T5U-BS</u>
	<p>QuickDisconnect (0° or 90° settled)</p> 	10-30V DC (Euro Style)	NPN L.O./D.O.	<u>RS76-D2000N-CY9Q4UE-BS</u>
			PNP L.O./D.O.	<u>RS76-D2000P-CY9Q4UE-BS</u>
			NPN/PNP L.O./D.O.	<u>RS76-D2000D-CY9Q4UE-BS</u>
			NPN , Timing delay	<u>RS76-D2000N-CY9Q4UE-BT</u>
			PNP , Timing delay	<u>RS76-D2000P-CY9Q4UE-BT</u>
			NPN/PNP, Timing delay	<u>RS76-D2000D-CY9Q4UE-BT</u>
		12-240V DC/ 24-240V AC (Micro Style)	Relay L.O./D.O. (5-wire)	<u>RS76-D2000R-CY9Q5LM-BS</u>
			Relay, Timing delay (5-wire)	<u>RS76-D2000R-CY9Q5LM-BT</u>
			SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-D2000C-CY9Q4UM-BS</u>
	<p>6" Pigtail</p> 	10-30V DC (Euro Style)	NPN L.O./D.O.	<u>RS76-D2000N-CY9P4UE-BS</u>
			PNP L.O./D.O.	<u>RS76-D2000P-CY9P4UE-BS</u>
			NPN/PNP L.O./D.O.	<u>RS76-D2000D-CY9P4UE-BS</u>
NPN , Timing delay			<u>RS76-D2000N-CY9P4UE-BT</u>	
PNP , Timing delay			<u>RS76-D2000P-CY9P4UE-BT</u>	
NPN/PNP, Timing delay			<u>RS76-D2000D-CY9P4UE-BT</u>	
12-240V DC/ 24-240V AC (Micro Style)		Relay L.O./D.O. (5-wire)	<u>RS76-D2000R-CY9P5LM-BS</u>	
		Relay, Timing delay (5-wire)	<u>RS76-D2000R-CY9P5LM-BT</u>	
		SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-D2000C-CY9P4UM-BS</u>	

**Note:**  
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Ah: RS76 SERIES

## Glass Fiber Optic Mode

Ah: RS76 SERIES

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
<p>LED Red: 660nm</p>  <p>800mm</p>  <p>65mm</p> <p>Glass Fiber-optic Sensing Distance (Note)</p>	<p>Terminal</p> 	10-30V DC	NPN L.O./D.O.	<u>RS76-FGFN-CY6T5U</u>
			PNP L.O./D.O.	<u>RS76-FGFP-CY6T5U</u>
			NPN/PNP L.O./D.O.	<u>RS76-FGFD-CY6T5U</u>
			NPN , Timing delay	<u>RS76-FGFN-CY6T5U-T</u>
			PNP , Timing delay	<u>RS76-FGFP-CY6T5U-T</u>
			NPN/PNP,Timing delay	<u>RS76-FGFD-CY6T5U-T</u>
	<p>QuickDisconnect(0°or90° settled)</p> 	10-30V DC (Euro Style)	NPN L.O./D.O.	<u>RS76-FGFN-CY6Q4UE</u>
			PNP L.O./D.O.	<u>RS76-FGFP-CY6Q4UE</u>
			NPN/PNP L.O./D.O.	<u>RS76-FGFD-CY6Q4UE</u>
			NPN , Timing delay	<u>RS76-FGFN-CY6Q4UE-T</u>
			PNP , Timing delay	<u>RS76-FGFP-CY6Q4UE-T</u>
			NPN/PNP,Timing delay	<u>RS76-FGFD-CY6Q4UE-T</u>
	<p>6" Pigtail</p> 	10-30V DC (Euro Style)	Relay L.O./D.O. (5-wire)	<u>RS76-FGFR-CY6T5L</u>
			Relay, Timing delay (5-wire)	<u>RS76-FGFR-CY6T5L-T</u>
			SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-FGFC-CY6T5U</u>
			NPN L.O./D.O.	<u>RS76-FGFN-CY6P4UE</u>
			PNP L.O./D.O.	<u>RS76-FGFP-CY6P4UE</u>
			NPN/PNP L.O./D.O.	<u>RS76-FGFD-CY6P4UE</u>
<p>12-240V DC/ 24-240V AC</p>	12-240V DC/ 24-240V AC (Micro Style)	NPN , Timing delay	<u>RS76-FGFN-CY6P4UE-T</u>	
		PNP , Timing delay	<u>RS76-FGFP-CY6P4UE-T</u>	
		NPN/PNP,Timing delay	<u>RS76-FGFD-CY6P4UE-T</u>	
		Relay L.O./D.O. (5-wire)	<u>RS76-FGFR-CY6Q5LM</u>	
		Relay, Timing delay (5-wire)	<u>RS76-FGFR-CY6Q5LM-T</u>	
		SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-FGFC-CY6Q4UM</u>	
<p>12-240V DC/ 24-240V AC</p>	12-240V DC/ 24-240V AC (Micro Style)	NPN L.O./D.O.	<u>RS76-FGFN-CY6P5LM</u>	
		PNP L.O./D.O.	<u>RS76-FGFP-CY6P5LM</u>	
		NPN/PNP L.O./D.O.	<u>RS76-FGFD-CY6P5LM</u>	
		NPN , Timing delay	<u>RS76-FGFN-CY6P5LM-T</u>	
		PNP , Timing delay	<u>RS76-FGFP-CY6P5LM-T</u>	
		NPN/PNP,Timing delay	<u>RS76-FGFD-CY6P5LM-T</u>	
		Relay L.O./D.O. (5-wire)	<u>RS76-FGFR-CY6P4UM</u>	
		Relay, Timing delay (5-wire)	<u>RS76-FGFR-CY6P4UM-T</u>	
		SPST Solid-state L.O./D.O. (2-wire)	<u>RS76-FGFC-CY6P4UM</u>	

**Note:** Depends on fiber optic used (Please see our Glass Fiber & Plastic Fiber catalogue for detail information).

Coming Soon : Part numbers with underline

In Preparation: Part numbers with a line through the middle

## Specifications (DC)

Item	Sensing Mode				
	Thru-beam	Retroreflective (with polarizing filter)	Diffuse (L: Long range S: Standard)	Diffuse (with background suppression)	Glass Fiber
<b>Sensing Range, Adjustable</b>	35 m	0.01...15 m (Note)	L:10...3500mm S:5...1700mm	L:0...2000mm S:0...380mm	depends on glass fiber optic used
<b>Angle of Divergence</b>	Approx. 1°	Approx. 1.7°	L: Approx. 1.8° S: Approx. 2.5°	Approx. 1.5°	———
<b>Light Spot Size</b>	700mm@30m	300 mm @ 10m	L:80 mm@ 2.5 m S:45mm@1 m	L: 50mm@1 m S:17mm@300mm	depends on sensing range
<b>Light Source</b>	Red Light	Red Light	L: Infrared S: Red light	Infrared	Red Light
<b>Response Time/Frequency</b>	<=1ms/500Hz	<=1.5ms/333Hz	L:<=5ms/100Hz S:<=1.5ms/333Hz	<=2ms/250Hz	<=2ms/250Hz
<b>Supply Voltage</b>	10-30V DC (limit values)				
<b>Current Consumption (no load)</b>	<35 mA (emitter of thru-beam mode: <20mA)				
<b>Ripple (within Vs tolerance)</b>	<= 5 V peak-to-peak				
<b>Indicator LED</b>	<b>Red:</b> Signal strength indicator				
<b>Output Type</b>	PNP, NPN, PNP/NPN				
<b>Output Voltage High</b>	PNP is Vs-(<=2.5V); NPN is approx. Vs				
<b>Output Voltage Low</b>	PNP is approx. 0V; NPN is <=1.5V				
<b>Output Current Max.</b>	100 mA				
<b>Operation Mode</b>	Light or dark switching selectable via switch				
<b>Material</b>	Housing: ABS; Optic: PC				
<b>Enclosure Rating</b>	IP 67				
<b>Circuit Protection</b>	Outputs short circuit and over current protected, Vs reverse polarity protected				
<b>Test input</b>	Emitter off: Test to 0V (only for thru-beam mode)				
<b>Time Options</b>	No delay, On delay, Off delay, One-shot (with timer mode only)				
<b>Time Settings</b>	0.1 ... 10s Variable (with timer mode only)				
<b>Ambient Operating Temperature</b>	-25...55°C				
<b>Storage Temperature</b>	-40...70°C				
<b>EMC</b>	IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m(in 80-1000MHZ), EFT>1KV, ESD>4KV(contact)				
<b>Voltage With Stand Ability</b>	IEC 60947-5-2, Part 8.3.3.4 or 500VDC for one min, between all supply terminals connected together and enclosure				
<b>Insulation Resistance</b>	>20MΩ, with 500V DC megger between all supply terminals connected together and enclosure				
<b>Vibration Resistance</b>	IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x, y and z directions for 30 min				
<b>Shock Resistance</b>	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y and z directions for six time each				
<b>Weight</b>	Approx. 120 g				
<b>Mounting Bracket</b>	MB-7263 (optional)				
<b>Pig tail Type</b>	See <b>Pigtail Series</b> or our <b>Cables &amp; Connectors</b> catalogue				

Note: Used with RE-6152 (supplied with sensor) reflector.



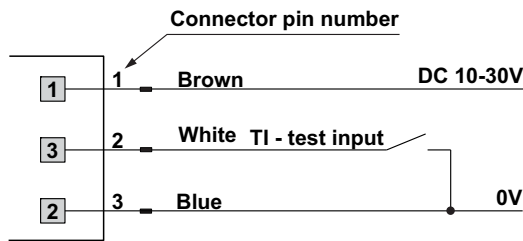
## Specifications (AC/DC)

Item	Sensing Mode					
	Thru-beam	Retroreflective (with polarizing filter)	Diffuse (L: Long range S: Standard)	Diffuse (with background suppression)	Glass Fiber	Retroreflective (with polarizing filter, with Mute input)
Sensing Range, Adjustable	45 m	0.01...15 m (Note)	L: 10...3500mm S: 5...1700mm	L: 0...2000mm S: 0...380mm	depends on glass fiber optic used	12 m
Angle of Divergence	Approx. 1°	Approx. 1.7°	L: Approx. 1.7° S: Approx. 2.5°	Approx. 1.5°	————	Approx. 1.5°
Light Spot Size	700mm@40m	300 mm @ 10m	L: 95 mm@ 3 m S: 60mm@1.3m	L: 200mm@2 m S: 17mm@300mm	depends on sensing range	280 mm @ 4m
Light Source	Red Light	Red Light	L: Infrared S: Red light	Infrared	Red Light	Red Light
Response Time / Frequency	<=20 ms /25 Hz					20Hz
Supply Voltage	12-240V DC / 24-240V AC (10%)					24V DC( 20) 24V AC( 20)
Switching Voltage Max.	240 V AC					————
Switching Current Max.	3 A					10mA @ 24V DC 16mA @ 24V AC
Current Consumption (No load)	< 30 mA					
Power Consumption	<=5 VA (emitter of thru-beam mode: <=4 VA)					
Indicator LED	<b>Red:</b> Signal strength indicator					
Output Type	Relay electrically isolated (provide arc suppression for inductive / capacitive loads), SPST Solid-state relay with either normally closed or normally open contact					
Operation Mode	Relay isolated : Light or dark switching selectable via switch SPST Solid-state: Light/Dark operate select switch					
Material	Housing: ABS; Optic: PC					
Enclosure Rating	IP 67					
Circuit Protection	Output short circuit protected (only for 2-wire type), Vs reverse polarity protected					
Time Options	No delay, On delay, Off delay, One-shot (with timer mode only)					
Time Settings	Adjustable, 0.1...10 s (with timer mode only)					
Ambient Operating Temperature	-25...55°C					
Storage Temperature	-40...70°C					
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 Withstand Ability	IEC 60947-5-2, Part 8.3.3.4 or 1500V AC for one min, between all supply terminals connected together and enclosure					
Insulation Resistance	>20MΩ , with 500V AC megger between all supply terminals connected together and enclosure					
Vibration Resistance	IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 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 time each					
Mounting Bracket	MB-7263 (optional)					
Weight	approx. 120 g					
Pig tail Type	See <b>Pigtail Series</b> or our <b>Cables &amp; Connectors</b> catalogue					

Note: Used with RE-6152 (supplied with sensor) reflector.

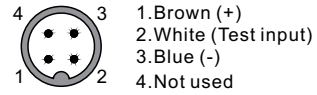
## Connection Diagrams

### Emitter of Thru-beam Mode (DC)

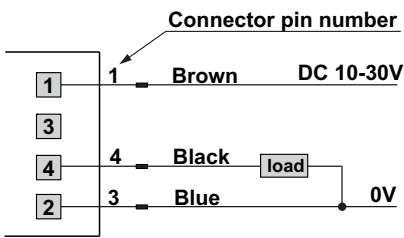


#### Connector pin position

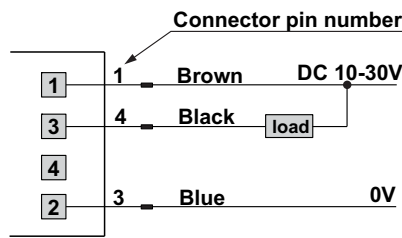
##### Euro-style



### PNP output

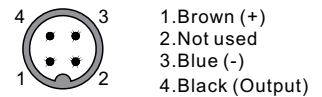


### NPN output

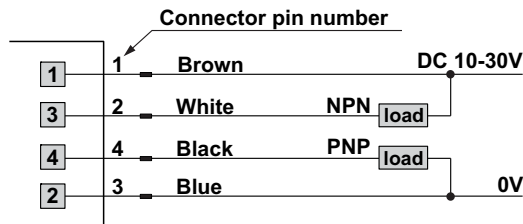


#### Connector pin position

##### Euro-style

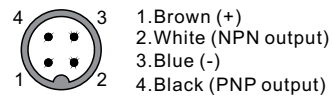


### NPN/PNP output

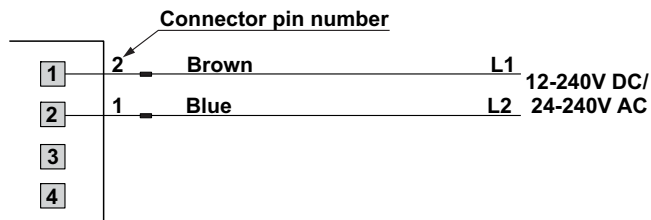


#### Connector pin position

##### Euro-style

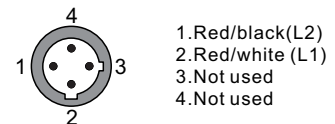


### Emitter of Thru-beam Mode (AC/DC)

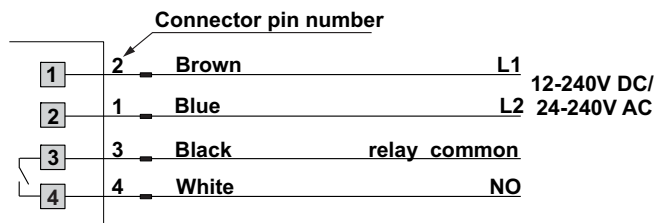


#### Connector pin position

##### Micro-style

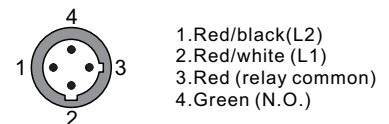


### Relay output (AC/DC)

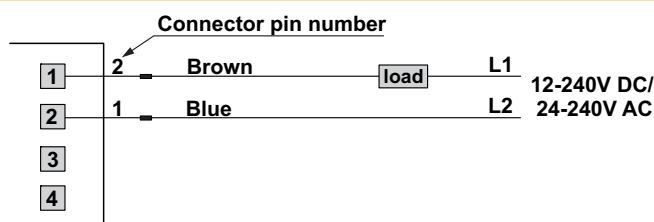


#### Connector pin position

##### Micro-style

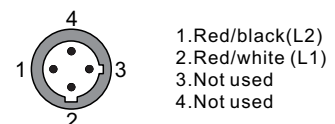


### SPST Solid-state output (AC/DC)



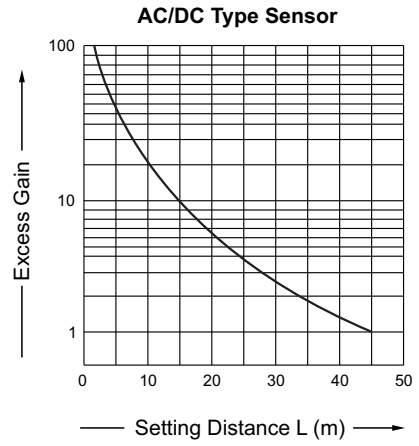
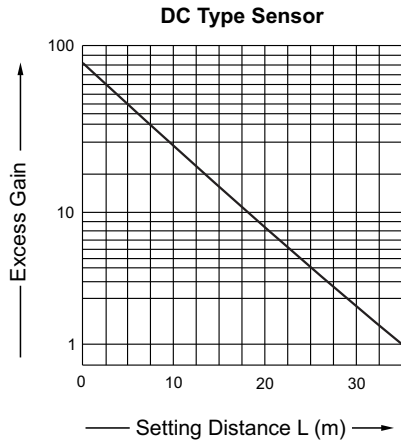
#### Connector pin position

##### Micro-style

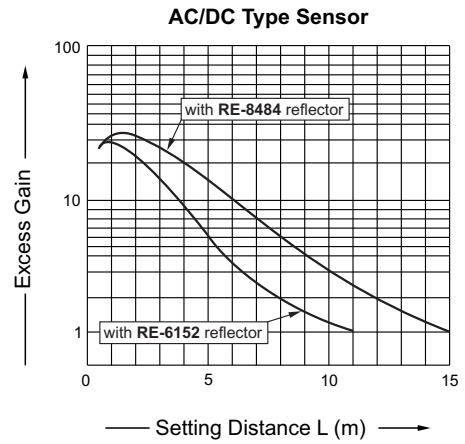
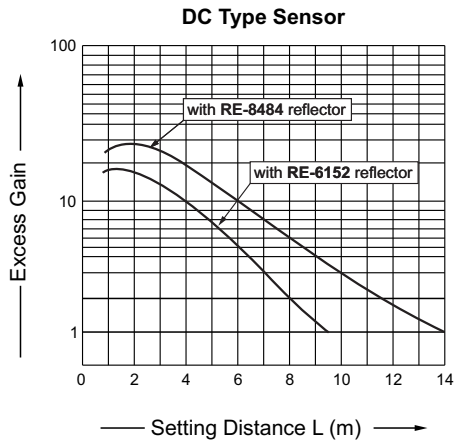


## Sensing Characteristics (Typical)

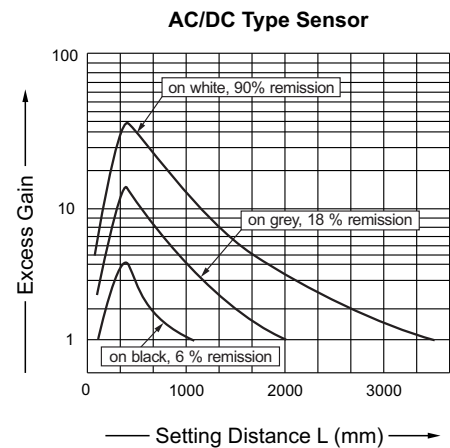
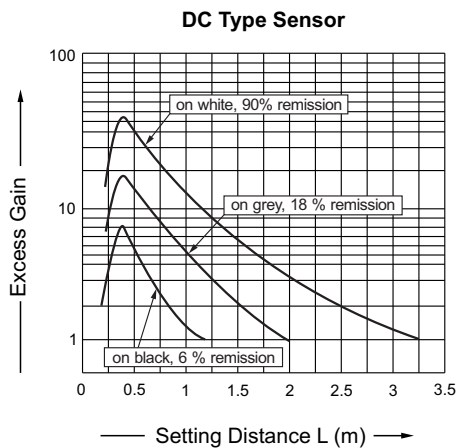
### Thru-beam Mode



### Polarized Retroreflective Mode

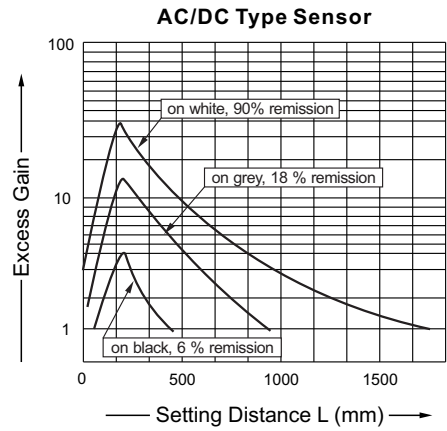
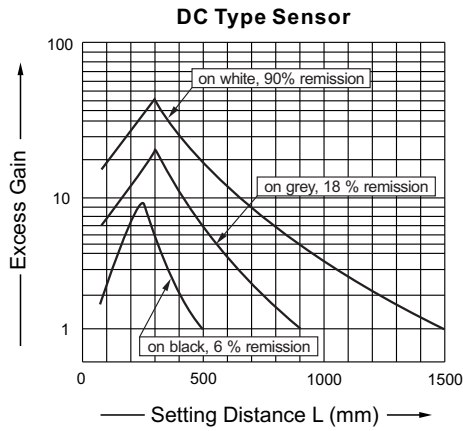


### Long Range Diffuse Mode

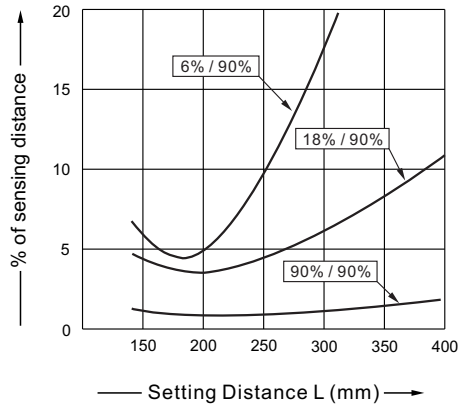


## Sensing Characteristics (Typical)

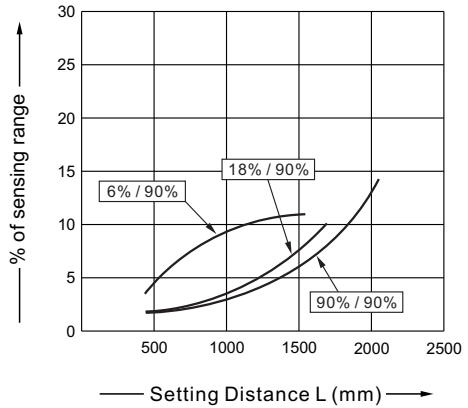
### Standard Diffuse Mode



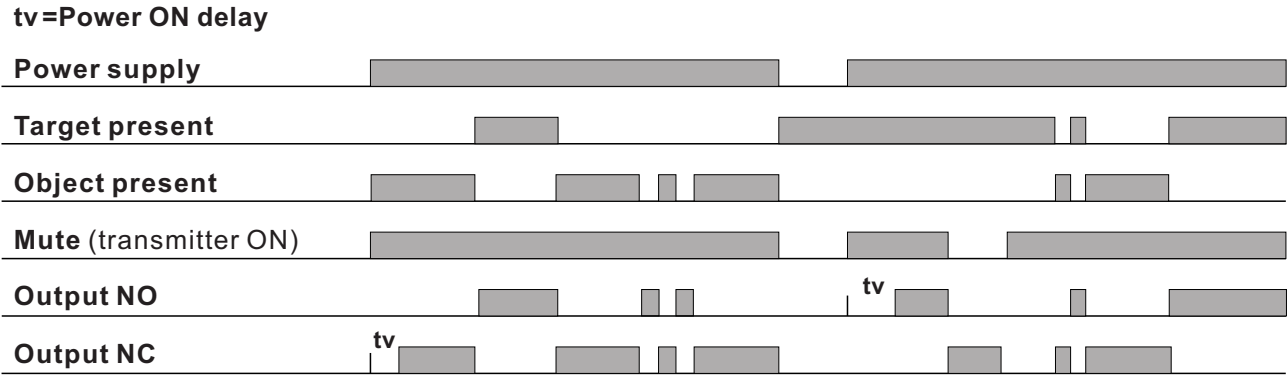
### BGS Type Diffuse Mode (Sn=380mm)



### BGS Type Diffuse Mode (Sn=2000mm)



### Mute Operation Diagram (Only for Mute input type sensor)

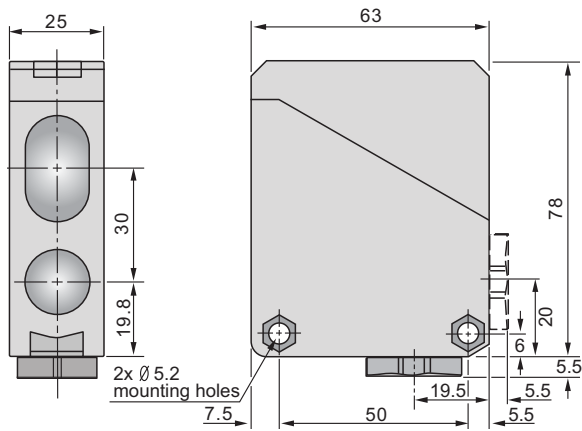


Mute Function	Switch selectable
Make on	≥4 VDC/VAC
Response time output off	<20 ms
Make off	<2V DC/VAC
Response time output on	<45 MS
Break on	≤2 VDC/VAC
Response time output off	< 45 ms
Break off	> 4 VDC/VAC
Response time output on	< 20 ms

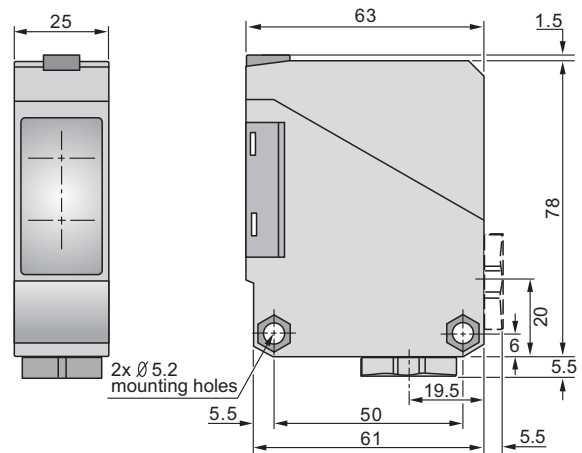
Ah: RS76 SERIES

## Dimensions (Unit: mm)

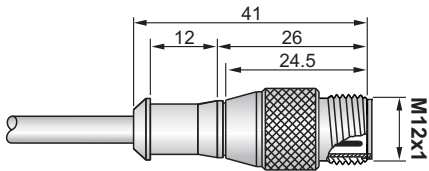
### Long Range BGS Type Diffuse (Sn=2 m) Sensor



### All Other Mode Sensor (Terminal Type)

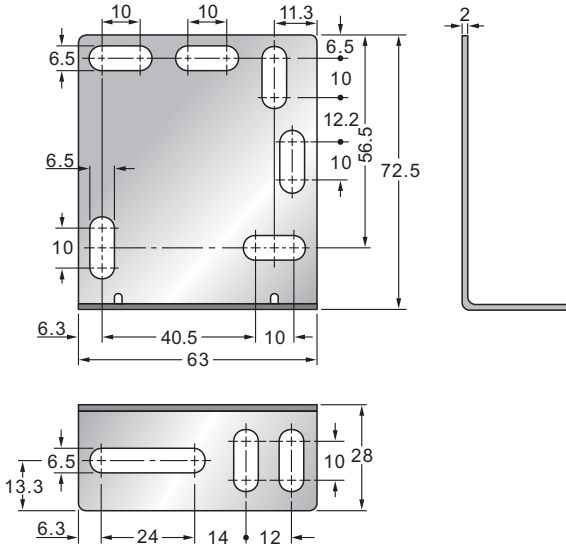


### Pigtail \* Type



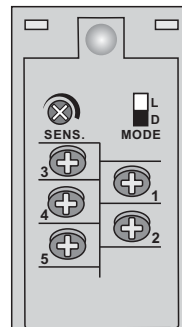
\*: Please see **Pigtail Series** or our **Cables & Connectors** catalogue for more information.

### MB-7263 (Mounting bracket-optional)



### Panel View Detail

#### Without timing delay



#### With timing delay

