

# Product Overview

## ■ Long Distance Cylindrical DC 2-Wire Type (Power: 12-24VDC, Non-Polarity Type) CE

Appearance		Appearance Classification				Model (Shield/Non Shield)	Sensing distance (mm)		Response frequency (Hz)	
		Standard type		Long type			Shield	Non Shield	Shield	Non Shield
		Shield	Non Shield	Shield	Non Shield					
M12	Normal type					PRDT12-4/8XO PRDT12-4/8XC	4	8	450	400
	Cable connector type					PRDLT12-4/8XO PRDLT12-4/8XC	4	8	450	400
M18	Normal type					PRDT18-7/14XO PRDT18-7/14XC	7	14	250	200
						PRDLT18-7/14XO PRDLT18-7/14XC	7	14	250	200
	Cable connector type					PRDWT18-7/14XO PRDWT18-7/14XC	7	14	250	200
						PRDWLT18-7/14XO PRDWLT18-7/14XC	7	14	250	200
M30	Normal type					PRDT30-15/25XO PRDT30-15/25XC	15	25	100	100
						PRDLT30-15/25XO PRDLT30-15/25XC	15	25	100	100
	Cable connector type					PRDWT30-15/25XO PRDWT30-15/25XC	15	25	100	100

## ■ Long Distance Cylindrical DC 2-Wire Type (Power: 12-24VDC) CE

Appearance		Appearance Classification				Model (Shield/Non Shield)	Sensing distance (mm)		Response frequency (Hz)	
		Standard type		Long type			Shield	Non Shield	Shield	Non Shield
		Shield	Non Shield	Shield	Non Shield					
M08	Normal type					PRDT08-2/4DO PRDT08-2/4DC	2	4	600	500
	Connector type					PRDCMT08-2/4DO PRDCMT08-2/4DC	2	4	600	500
	Cable connector type					PRDWT08-2/4DO PRDWT08-2/4DC	2	4	600	500
M12	Normal type					PRDT12-4/8DO PRDT12-4/8DC	4	8	450	400
						PRDLT12-4/8DO PRDLT12-4/8DC	4	8	450	400
	Connector type					PRDCMT12-4/8DO PRDCMT12-4/8DC	4	8	450	400
						PRDCMLT12-4/8DO PRDCMLT12-4/8DC	4	8	450	400
	Cable connector type					PRDWT12-4/8DO PRDWT12-4/8DC	4	8	450	400
	Spatter resistance normal type					PRDAT12-4DO PRDAT12-4DC PRDAT12-4DO-V PRDAT12-4DC-V	4	-	450	-
	Spatter resistance cable connector type					PRDAWT12-4DO-I PRDAWT12-4DC-I	4	-	450	-
M18	Normal type					PRDT18-7/14DO PRDT18-7/14DC	7	14	250	200
						PRDLT18-7/14DO PRDLT18-7/14DC	7	14	250	200
	Connector type					PRDCMT18-7/14DO PRDCMT18-7/14DC	7	14	250	200
						PRDCMLT18-7/14DO PRDCMLT18-7/14DC	7	14	250	200
	Cable connector type					PRDWT18-7/14DO PRDWT18-7/14DC	7	14	250	200
						PRDWLT18-7/14DO PRDWLT18-7/14DC	7	14	250	200
	Spatter resistance normal type					PRDAT18-7DO PRDAT18-7DC	7	-	250	-
Spatter resistance cable connector type					PRDAWT18-7DO PRDAWT18-7DC	7	-	250	-	
M30	Normal type					PRDT30-15/25DO PRDT30-15/25DC	15	25	100	100
						PRDLT30-15/25DO PRDLT30-15/25DC	15	25	100	100
	Connector type					PRDCMT30-15/25DO PRDCMT30-15/25DC	15	25	100	100
						PRDCMLT30-15/25DO PRDCMLT30-15/25DC	15	25	100	100
	Cable connector type					PRDWT30-15/25DO PRDWT30-15/25DC	15	25	100	100
	Spatter resistance normal type					PRDAT30-15DO PRDAT30-15DC	15	-	100	-
Spatter resistance cable connector type					PRDAWT30-15DO PRDAWT30-15DC	15	-	100	-	

※IEC standard connector type is available. Please add "-I" to the end of model for ordering.

## ■ Cylindrical DC 2-Wire Type (Power: 12-24VDC, Non-Polarity Type) CE

Appearance		Appearance Classification				Model (Shield/Non Shield)	Sensing distance (mm)		Response frequency (Hz)	
		Standard type		Long type			Shield	NonShield	Shield	NonShield
		Shield	Non Shield	Shield	Non Shield					
M12	Normal type					PRT12-2/4XO PRT12-2/4XC	2	4	1500	500
	Cable connector type					PRWT12-2/4XO PRWT12-2/4XC	2	4	1500	500
	Spatter resistance normal type					PRAT12-2XO PRAT12-2XC	2	—	1500	—
	Spatter resistance cable connector type					PRAWT12-2XO PRAWT12-2XC	2	—	1500	—
M18	Normal type					PRT18-5/8XO PRT18-5/8XC	5	8	500	350
	Cable connector type					PRWT18-5/8XO PRWT18-5/8XC	5	8	500	350
	Spatter resistance normal type					PRAT18-5XO PRAT18-5XC	5	—	500	—
	Spatter resistance cable connector type					PRAWT18-5XO PRAWT18-5XC	5	—	500	—
M30	Normal type					PRT30-10/15XO PRT30-10/15XC	10	15	400	200
	Cable connector type					PRWT30-10/15XO PRWT30-10/15XC	10	15	400	200
	Spatter resistance normal type					PRAT30-10XO PRAT30-10XC	10	—	400	—
	Spatter resistance cable connector type					PRAWT30-10XO PRAWT30-10XC	10	—	400	—

## ■ Cylindrical DC 2-Wire Type (Power: 12-24VDC) CE

Appearance		Appearance Classification				Model (Shield/Non Shield)	Sensing distance (mm)		Response frequency (Hz)	
		Standard type		Long type			Shield	NonShield	Shield	NonShield
		Shield	Non Shield	Shield	Non Shield					
M08	Normal type					PRT08-1.5/2DO PRT08-1.5/2DC	1.5	2	1500	1000
	Cable connector type					PRWT08-1.5/2DO PRWT08-1.5/2DC	1.5	2	1500	1000
M12	Normal type					PRT12-2/4DO PRT12-2/4DC	2	4	1500	500
	Connector type					PRCMT12-2/4DO PRCMT12-2/4DC	2	4	1500	500
	Cable connector type					PRWT12-2/4DO PRWT12-2/4DC	2	4	1500	500
	Spatter resistance normal type					PRAT12-2DO PRAT12-2DC	2	—	1500	—
	Spatter resistance cable connector type					PRAWT12-2DO PRAWT12-2DC	2	—	1500	—
M18	Normal type					PRT18-5/8DO PRT18-5/8DC	5	8	500	350
	Connector type					PRCMT18-5/8DO PRCMT18-5/8DC	5	8	500	350
	Cable connector type					PRWT18-5/8DO PRWT18-5/8DC	5	8	500	350
	Spatter resistance normal type					PRAT18-5DO PRAT18-5DC	5	—	500	—
	Spatter resistance cable connector type					PRAWT18-5DO PRAWT18-5DC	5	—	500	—
M30	Normal type					PRT30-10/15DO PRT30-10/15DC	10	15	400	200
	Connector type					PRCMT30-10/15DO PRCMT30-10/15DC	10	15	400	200
	Cable connector type					PRWT30-10/15DO PRWT30-10/15DC	10	15	400	200
	Spatter resistance normal type					PRAT30-10DO PRAT30-10DC	10	—	400	—
	Spatter resistance cable connector type					PRAWT30-10DO PRAWT30-10DC	10	—	400	—

※IEC standard connector type is available. Please add "-I" to the end of model for ordering.

- (A) Photoelectric Sensors
- (B) Fiber Optic Sensors
- (C) Door/Area Sensors
- (D) Proximity Sensors
- (E) Pressure Sensors
- (F) Rotary Encoders
- (G) Connectors/ Sockets
- (H) Temperature Controllers
- (I) SSRs / Power Controllers
- (J) Counters
- (K) Timers
- (L) Panel Meters
- (M) Tacho / Speed / Pulse Meters
- (N) Display Units
- (O) Sensor Controllers
- (P) Switching Mode Power Supplies
- (Q) Stepper Motors & Drivers & Controllers
- (R) Graphic/ Logic Panels
- (S) Field Network Devices
- (T) Software

# Product Overview

## ■ Long Distance Cylindrical DC 3-Wire Type (Power: 12-24VDC)



Appearance		Appearance Classification				Model (Shield/Non Shield)	Sensing distance (mm)		Response frequency (Hz)		
		Standard type		Long type			Shield	NonShield	Shield	NonShield	
		Shield	Non Shield	Shield	Non Shield						
M12	Normal type					PRD12-4/8DN PRD12-4/8DP PRD12-4/8DN2 PRD12-4/8DP2	4	8	500	400	
						PRDL12-4/8DN PRDL12-4/8DP PRDL12-4/8DN2 PRDL12-4/8DP2	4	8	500	400	
	Connector type					PRDCM12-4/8DN PRDCM12-4/8DP PRDCM12-4/8DN2 PRDCM12-4/8DP2	4	8	500	400	
						PRDCML12-4/8DN PRDCML12-4/8DP PRDCML12-4/8DN2 PRDCML12-4/8DP2	4	8	500	400	
	Cable connector type					PRDW12-4/8DN PRDW12-4/8DP PRDW12-4/8DN2 PRDW12-4/8DP2	4	8	500	400	
						PRDWL12-4/8DN PRDWL12-4/8DP PRDWL12-4/8DN2 PRDWL12-4/8DP2	4	8	500	400	
	M18	Normal type					PRD18-7/14DN PRD18-7/14DP PRD18-7/14DN2 PRD18-7/14DP2	7	14	300	200
							PRDL18-7/14DN PRDL18-7/14DP PRDL18-7/14DN2 PRDL18-7/14DP2	7	14	300	200
Connector type						PRDCM18-7/14DN PRDCM18-7/14DP PRDCM18-7/14DN2 PRDCM18-7/14DP2	7	14	300	200	
						PRDCML18-7/14DN PRDCML18-7/14DP PRDCML18-7/14DN2 PRDCML18-7/14DP2	7	14	300	200	
Cable connector type						PRDW18-7/14DN PRDW18-7/14DP PRDW18-7/14DN2 PRDW18-7/14DP2	7	14	300	200	
						PRDWL18-7/14DN PRDWL18-7/14DP PRDWL18-7/14DN2 PRDWL18-7/14DP2	7	14	300	200	
M30		Normal type					PRD30-15/25DN PRD30-15/25DP PRD30-15/25DN2 PRD30-15/25DP2	15	25	100	100
							PRDL30-15/25DN PRDL30-15/25DP PRDL30-15/25DN2 PRDL30-15/25DP2	15	25	100	100
	Connector type					PRDCM30-15/25DN PRDCM30-15/25DP PRDCM30-15/25DN2 PRDCM30-15/25DP2	15	25	100	100	
						PRDCML30-15/25DN PRDCML30-15/25DP PRDCML30-15/25DN2 PRDCML30-15/25DP2	15	25	100	100	
	Cable connector type					PRDW30-15/25DN PRDW30-15/25DP PRDW30-15/25DN2 PRDW30-15/25DP2	15	25	100	100	
						PRDWL30-15/25DN PRDWL30-15/25DP PRDWL30-15/25DN2 PRDWL30-15/25DP2	15	25	100	100	

## ■ Cylindrical DC 3-Wire Type (Power: 12-24VDC)



Appearance		Appearance Classification				Model (Shield/Non Shield)	Sensing distance (mm)		Response frequency (Hz)	
		Standard type		Long type			Shield	Non Shield	Shield	Non Shield
		Shield	Non Shield	Shield	Non Shield					
M08	Normal type					PR08-1.5/2DN PR08-1.5/2DP PR08-1.5/2DN2 ✕ PR08-1.5/2DP2 ✕	1.5	2	1500	1000
						PRL08-1.5/2DN PRL08-1.5/2DP PRL08-1.5/2DN2 ✕ PRL08-1.5/2DP2 ✕	1.5	2	1500	1000
	Cable connector type					PRW08-1.5/2DN PRW08-1.5/2DP PRW08-1.5/2DN2 ✕ PRW08-1.5/2DP2 ✕	1.5	2	1500	1000
						PRWL08-1.5/2DN PRWL08-1.5/2DP PRWL08-1.5/2DN2 ✕ PRWL08-1.5/2DP2 ✕	1.5	2	1500	1000
M12	Normal type					PRS12-2/4DN PRS12-2/4DP PRS12-2/4DN2 ✕ PRS12-2/4DP2 ✕	2	4	1500	1000
						PR12-2/4DN PR12-2/4DP PR12-2/4DN2 ✕ PR12-2/4DP2 ✕	2	4	1500	1000
						PRL12-4DN PRL12-4DP	—	4	—	500
	Connector type					PRCM12-2/4DN PRCM12-2/4DP PRCM12-2/4DN2 ✕ PRCM12-2/4DP2 ✕	2	4	1500	1000
	Cable connector type					PRW12-2/4DN PRW12-2/4DP PRW12-2/4DN2 ✕ PRW12-2/4DP2 ✕	2	4	1500	1000
	Spatter resistance type					PRA12-2DN PRA12-2DP PRA12-2DN2 ✕ PRA12-2DP2 ✕	2	—	1500	—
M18	Normal type					PR18-5/8DN PR18-5/8DP PR18-5/8DN2 ✕ PR18-5/8DP2 ✕	5	8	500	350
						PRL18-5/8DN PRL18-5/8DP PRL18-5/8DN2 ✕ PRL18-5/8DP2 ✕	5	8	500	350
	Connector type					PRCM18-5/8DN PRCM18-5/8DP PRCM18-5/8DN2 ✕ PRCM18-5/8DP2 ✕	5	8	500	350
						PRCML18-5/8DN PRCML18-5/8DP PRCML18-5/8DN2 ✕ PRCML18-5/8DP2 ✕	5	8	500	350
	Cable connector type					PRW18-5/8DN PRW18-5/8DP PRW18-5/8DN2 ✕ PRW18-5/8DP2 ✕	5	8	500	350
						PRWL18-5/8DN PRWL18-5/8DP PRWL18-5/8DN2 ✕ PRWL18-5/8DP2 ✕	5	8	500	350
	Spatter resistance type					PRA18-5DN PRA18-5DP PRA18-5DN2 ✕ PRA18-5DP2 ✕	5	—	500	—
	M30	Normal type					PR30-10/15DN PR30-10/15DP PR30-10/15DN2 ✕ PR30-10/15DP2 ✕	10	15	400
						PRL30-10/15DN PRL30-10/15DP PRL30-10/15DN2 ✕ PRL30-10/15DP2 ✕	10	15	400	200
Connector type						PRCM30-10/15DN PRCM30-10/15DP PRCM30-10/15DN2 ✕ PRCM30-10/15DP2 ✕	10	15	400	200
						PRCML30-10/15DN PRCML30-10/15DP PRCML30-10/15DN2 ✕ PRCML30-10/15DP2 ✕	10	15	400	200
Cable connector type						PRW30-10/15DN PRW30-10/15DP PRW30-10/15DN2 ✕ PRW30-10/15DP2 ✕	10	15	400	200
						PRWL30-10/15DN PRWL30-10/15DP PRWL30-10/15DN2 ✕ PRWL30-10/15DP2 ✕	10	15	400	200
Spatter resistance type						PRA30-10DN PRA30-10DP PRA30-10DN2 ✕ PRA30-10DP2 ✕	10	—	400	—

✕ mark can be customized.

- (A) Photoelectric Sensors
- (B) Fiber Optic Sensors
- (C) Door/Area Sensors
- (D) Proximity Sensors
- (E) Pressure Sensors
- (F) Rotary Encoders
- (G) Connectors/ Sockets
- (H) Temperature Controllers
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# Product Overview



## ■ Cylindrical AC 2-Wire Type (Power: 100-240VAC)



Appearance		Appearance Classification				Model (Shield/Non Shield)	Sensing distance (mm)		Response frequency (Hz)
		Standard type		Long type			Shield	Non Shield	
		Shield	Non Shield	Shield	Non Shield				
<b>M12</b>	Normal type					PR12-2/4AO PR12-2/4AC	2	4	20
	Connector type					PRCM12-2/4AO PRCM12-2/4AC	2	4	
	Cable connector type					PRW12-2/4AO PRW12-2/4AC	2	4	
	Spatter resistance type					PRA12-2AO PRA12-2AC	2	—	
<b>M18</b>	Normal type					PR18-5/8AO PR18-5/8AC	5	8	
						PRL18-5/8AO PRL18-5/8AC	5	8	
	Connector type					PRCM18-5/8AO PRCM18-5/8AC	5	8	
						PRCML18-5/8AO PRCML18-5/8AC	5	8	
	Cable connector type					PRW18-5/8AO PRW18-5/8AC	5	8	
						PRWL18-5/8AO PRWL18-5/8AC	5	8	
Spatter resistance type					PRA18-5AO PRA18-5AC	5	—		
<b>M30</b>	Normal type					PR30-10/15AO PR30-10/15AC	10	15	
						PRL30-10/15AO PRL30-10/15AC	10	15	
	Connector type					PRCM30-10/15AO PRCM30-10/15AC	10	15	
						PRCML30-10/15AO PRCML30-10/15AC	10	15	
	Cable connector type					PRW30-10/15AO PRW30-10/15AC	10	15	
						PRWL30-10/15AO PRWL30-10/15AC	10	15	
Spatter resistance type					PRA30-10AO PRA30-10AC	10	—		

## ■ Square DC 2-Wire Type (Power: 12-24VDC)



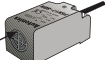





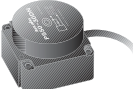


Appearance Classification			Model	Sensing distance (mm)	Response frequency (Hz)	
Classification	Standard type (Front sensing)	Upside sensing				
17 Square	Normal type	 (Front sensing type)	PSNT17-5DO	5	700	
			PSNT17-5DC			
			 (Upside sensing type)			PSNT17-5DOU ※
			PSNT17-5DCU ※			

※ mark can be customized.

## ■ Square DC 3-Wire Type (Power: 12-24VDC)



Appearance Classification			Model	Sensing distance (mm)	Response frequency (Hz)					
Classification	Standard type (Front sensing)	Upside sensing								
12 Square	Normal type	 (Front sensing type)	PS12-4DN	4	500					
			PS12-4DP							
			PS12-4DN2 ※							
			 (Upside sensing type)			PS12-4DNU				
						PS12-4DPU				
						PS12-4DN2U ※				
17 Square	Normal type	 (Front sensing type)	PSN17-5DN	5	700					
			PSN17-5DP							
			PSN17-5DN2 ※							
			PSN17-5DP2 ※							
			PSN17-5DN-F							
			PSN17-8DN			8	200			
			PSN17-8DP							
			PSN17-8DN2 ※							
			PSN17-8DN-F							
	PSN17-8DP-F									
	PSN17-8DN2-F ※									
		 (Upside sensing type)	PSN17-5DNU	5	700					
			PSN17-5DPU							
			PSN17-5DN2U ※							
			PSN17-5DP2U ※							
			PSN17-8DNU			8	200			
			PSN17-8DPU							
			PSN17-8DN2U ※							
PSN17-8DNU-F										
PSN17-8DPU-F										
PSN17-8DN2U-F ※										
25 Square	Normal type		PSN25-5DN	5	350					
			PSN25-5DP							
			PSN25-5DN2 ※							
	Flat type					PFI25-8DN	8	200		
			PFI25-8DP							
			PFI25-8DN2 ※							
PFI25-8DP2 ※										
30 Square	Normal type		PSN30-10DN	10	250					
			PSN30-10DP							
			PSN30-10DN2 ※							
			PSN30-10DP2 ※							
			PSN30-15DN			15	200			
			PSN30-15DP							
PSN30-15DN2 ※										
PSN30-15DP2 ※										
40 Square	Normal type		PSN40-20DN	20	100					
			PSN40-20DP							
			PSN40-20DN2 ※							
			PSN40-20DP2 ※							
			50 Square			Normal type			30	50
								PS50-30DN		
PS50-30DP										
PS50-30DN2 ※										
			PS50-30DP2 ※							


※ mark can be customized.

- (A) Photoelectric Sensors
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- (C) Door/Area Sensors
- (D) Proximity Sensors
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- (J) Counters
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- (L) Panel Meters
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- (N) Display Units
- (O) Sensor Controllers
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- (S) Field Network Devices
- (T) Software

# Product Overview





## ■ Rectangular DC 4-Wire Type (Power: 12-48VDC)





Appearance Classification				Model	Sensing distance (mm)		Response frequency (Hz)
Classification		Standard type (Front sensing)			Upside sensing	Shield	
80 Square	Normal type			Long distance type 	AS80-50DN3		50
						AS80-50DP3	

## ■ Rectangular AC 2-Wire Type (Power: 100-240VAC)





Appearance Classification				Model	Sensing distance (mm)		Response frequency (Hz)
Classification		Standard type (Front sensing)			Upside sensing	Shield	
25 Square	Normal type			PSN25-5AO	5		
				PSN25-5AC			
25 Square	Flat type				8		20
				PFI25-8AC			
30 Square	Normal type			PSN30-10AO	10		
				PSN30-10AC			
				PSN30-15AO			
30 Square	Normal type			PSN30-15AC	15		
					20		
40 Square	Normal type			PSN40-20AO	20		
				PSN40-20AC			

## ■ Capacitive Cylindrical DC 3-Wire Type (Power: 12-24VDC)


Classification		Appearance Classification				Model	Sensing distance (mm)		Response frequency (Hz)	
		Standard type		Long type			Shield	Non Shield		
		Shield	Non Shield	Shield	Non Shield					
M18	Normal type					CR18-8DN	8	—	50	
										CR18-8DP
										CR18-8DN2 ※
M30	Normal type					CR30-15DN	—	15		
										CR30-15DP
										CR30-15DN2 ※

※ mark can be customized.

## ■ Capacitive Cylindrical AC 2-Wire Type (Power: 100-240VAC)

Classification		Appearance Classification				Model	Sensing distance (mm)		Response frequency (Hz)
		Standard type		Long type			Shield	Non Shield	
		Shield	Non Shield	Shield	Non Shield				
M18	Normal type					CR18-8AO	8	—	20
M30	Normal type					CR30-15AO	—	15	

## ■ Transmission Coupler

Classification		Appearance Classification				Model	Sensing distance (mm)		Response frequency (Hz)
		Standard type		Long type			Shield	Non Shield	
		Shield	Non Shield	Shield	Non Shield				
M18	Normal type					PET18-5	5	—	—

※ Transmittable Proximity sensor: PRT18-5D□, PRCMT18-5D□, PR18-5D□, PRCM18-5D□, PRL18-5D□, PRCML18-5D□.