













Connectors / Connector Cables / Sensor Distribution Boxes / Sockets

Sensor Connector / Connector Cable /

Series	Number Of Pins	Power Supply	Rated Current	Terminal Retention
Sensor Connector CNE Series <Wire mount plug>  ■ Type 03: 3-pin 04: 4-pin		Max. 250VAC/DC	Max. 3.0A	Min. 1.4kgf

Sensor Connector CNE Series <Wire mount socket>  ■ Type 03: 3-pin 04: 4-pin		Max. 250VAC/DC	Max. 3.0A	Min. 1.4kgf
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Series	Number Of Pins	Power Supply	Rated Current	Terminal Retention
Sensor Connector CNE Series <Board mount socket>  ■ Type 03: 3-pin 04: 4-pin		Max. 250VAC/DC	Max. 3.0A	Min. 1.4kgf

Appearance	Connector Standard	Connection	Connection Method	Cable Material	Cable Length (m)	Model		
Connector Cable for Photoelectric Sensor / Proximity Sensor CID/CLD Series <CID> 	M12	DC 2-wire type	Socket type	PVC	2	CID2-2		
					5	CID2-5		
		<CLD> 	DC 2-wire type (IEC standard)		Socket type	PVC	2	CLD2-2
							5	CLD2-5
<CID> 	M12	DC 2-wire type	Plug type	PVC	2	CID2-2-I		
					5	CID2-5-I		
		<CLD> 	DC 2-wire type		Plug type	PVC	2	CLD2-2-I
							5	CLD2-5-I
<CID> 	M12	DC 3-wire type	Socket type	PVC	2	CID2-2P		
					5	CID2-5P		
		<CLD> 	DC 3-wire type		Socket type	PVC	2	CLD2-2P
							5	CLD2-5P
<CID> 	M12	DC 3-wire type	Socket type	PVC	2	CID3-2		
					5	CID3-5		
		<CLD> 	DC 3-wire type		Socket type	PVC	2	CLD3-2
							5	CLD3-5
<CID> 	M12	DC 3-wire type	Plug type	PVC	2	CID3-2P		
					2	CLD3-2P		

AWG	Nominal Cross Section Area (mm ²)	Cover Diameter (mm)	Cover Color	Model
AWG28-30	0.05 to 0.08	Ø0.6 to 0.8	Transparent	CNE-P■-WT
		Ø0.8 to 1.0	Yellow-Green	CNE-P■-YG
		Ø1.0 to 1.2	Violet	CNE-P■-VT
AWG24-26	0.13 to 0.21	Ø0.8 to 1.0	Red	CNE-P■-RE
		Ø1.0 to 1.2	Yellow	CNE-P■-YW
		Ø1.2 to 1.6	Orange	CNE-P■-OG
AWG20-22	0.32 to 0.5	Ø1.0 to 1.2	Green	CNE-P■-GN
		Ø1.2 to 1.6	Blue	CNE-P■-BL
		Ø1.6 to 2.0	Gray	CNE-P■-GY











AWG28-30	0.05 to 0.08	Ø0.6 to 0.8	Transparent	CNE-S■-WT
		Ø0.8 to 1.0	Yellow-Green	CNE-S■-YG
		Ø1.0 to 1.2	Violet	CNE-S■-VT
AWG24-26	0.13 to 0.21	Ø0.8 to 1.0	Red	CNE-S■-RE
		Ø1.0 to 1.2	Yellow	CNE-S■-YW
		Ø1.2 to 1.6	Orange	CNE-S■-OG
AWG20-22	0.32 to 0.5	Ø1.0 to 1.2	Green	CNE-S■-GN
		Ø1.2 to 1.6	Blue	CNE-S■-BL
		Ø1.6 to 2.0	Gray	CNE-S■-GY



Number Of Lines	PCB	Model
1-line		CNE-B■
2-line	Fender plated-through hole, Hole diameter: 1.0mm PCB thickness: 1.0 to 2.2mm	CNE-B2■
4-line		CNE-B4■




Appearance	Connector Standard	Connection	Connection Method	Cable Material	Cable Length (m)	Model					
Connector Connection Cable for Photoelectric Sensor / Proximity Sensor C□D/C□A Series 	M12	DC type	Socket-plug type	PVC	2	C1D4-2					
					5	C1D4-5					
				Oil-resistive PVC	1	C1DH4-1					
					3	C1DH4-3					
					5	C1DH4-5					
					7	C1DH4-7					
	M12	AC type	Socket-plug type	PVC	2	C1A4-2					
					5	C1A4-5					
						M12	DC type	Socket-plug type	PVC	2	C2D4-2
										5	C2D4-5
Oil-resistive PVC									1	C2DH4-1	
									3	C2DH4-3	
	5	C2DH4-5									
	7	C2DH4-7									
M12	AC type	Socket-plug type	PVC	2		C2A4-2					
				5		C2A4-5					
						M12	DC type	Socket-plug type	PVC	2	C3D4-2
										5	C3D4-5
Oil-resistive PVC	1	C3DH4-1									
	3	C3DH4-3									
	5	C3DH4-5									
	7	C3DH4-7									
M12	AC type	Socket-plug type	PVC		2	C3A4-2					
					5	C3A4-5					

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Appearance	Connector Standard	Connection	Connection Method	Cable Material	Cable Length (m)	Model
Connector Cable for Photoelectric Sensor / Proximity Sensor CID/CLD Series <CID>  <CLD> 	M12	DC 4-wire type	Socket type	Oil-resistive PVC	2	CIDH4-2
					3	CIDH4-3
					5	CIDH4-5
					7	CIDH4-7
					2	CLDH4-2
					3	CLDH4-3
					5	CLDH4-5
7	CLD H4-7					
<CID>  <CLD> 	M12	DC 4-wire type	Plug type	Oil-resistive PVC	2	CIDH4-2P
					3	CIDH4-3P
					5	CIDH4-5P
					7	CIDH4-7P
					2	CLDH4-2P
					3	CLDH4-3P
					5	CLDH4-5P
7	CLDH4-7P					
<CIA>  <CLA> 	M12	AC 2-wire type	Socket type	PVC	2	CIA2-2
					5	CIA2-5
				Oil-resistive PVC	2	CIAH2-2
					5	CIAH2-5
				PVC	2	CLA2-2
					5	CLA2-5
				Oil-resistive PVC	2	CLAH2-2
					5	CLAH2-5
<CIA>  <CLA> 	M12	AC 2-wire type	Plug type	PVC	2	CIA2-2P
					5	CIA2-5P
				Oil-resistive PVC	2	CIAH2-2P
					5	CIAH2-5P
				PVC	2	CLA2-2P
					5	CLA2-5P
				Oil-resistive PVC	2	CLAH2-2P
					5	CLAH2-5P
<CID>  <CLD> 	M8	DC 4-wire type	Socket type	PVC	2	CID408-2
					5	CID408-5
					2	CLD408-2
					5	CLD408-5

Appearance	Connector Standard	Connection	Connection Method	Cable Material	Cable Length (m)	Model
Connector Connection Cable for Photoelectric Sensor / Proximity Sensor CID/CLD Series <C4D4/C4A4> 	M12	DC type	Socket-plug type	PVC	2	C4D4-2
					5	C4D4-5
				Oil-resistive PVC	1	C4DH4-1
					3	C4DH4-3
					5	C4DH4-5
					7	C4DH4-7
					PVC	2
5	C4A4-5					
<C1D4/C1A4> 	M12	DC type	Plug-plug type	PVC	2	C1D4-2P
					5	C1D4-5P
					M12	AC type
	5	C1A4-5P				

Appearance	Connector Standard	Connection	Number Of Connector Pins	Connection Method	Encoder Output Type	Cable Length (m)	Model						
Connector Cable for Encoder CID Series 	M12	DC type	6	Socket type	Totem pole, NPN open collector, Voltage output	2	CID6S-2						
						5	CID6S-5						
						7	CID6S-7						
						10	CID6S-10						
						15	CID6S-15						
			6	Socket type	Line Driver	2	CID9S-2						
						5	CID9S-5						
						10	CID9S-10						
						Connector Cable for Encoder CID Series 	M12	DC type	13	Socket type	Binary Code, Gray Code	2	CID13S-2
												5	CID13S-5
10	CID13S-10												
Connector Cable for Encoder CID Series 	M17	DC type	13	Socket-plug type	CID13S-□ Connection cable	2	CID13P-2-SI						
						5	CID13P-5-SI						
						10	CID13P-10-SI						

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Sensor Connector / Connector Cable /

Series	Number Of Ports	Input Logic	Output Type		Power Supply	Rated Current
			1-Signal (DC 3-Wire Type)	1/2-Signal (DC 4-Wire Type)		
M12 5-Pin Connector (Cable Type) Sensor Distribution Box PT Series <PT4> W54×H22.5×L95mm <PT6> W54×H22.5×L120mm <PT8> W54×H22.5×L145mm	4	NPN	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)
		PNP	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)
	6	NPN	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)
		PNP	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)
	8	NPN	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)
		PNP	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)

※1. Sold separately: Protection cover (CAP-PT), Waterproof cover (P96-M12-1)

Series	Number Of Ports	Input Logic	Output Type		Power Supply	Rated Current
			1-Signal (DC 3-Wire Type)	1/2-Signal (DC 4-Wire Type)		
M12 5-Pin Connector (Connector Type) Sensor Distribution Box PT-C Series <PT4-C> W54×H31.5×L95mm <PT6-C> W54×H31.5×L120mm <PT8-C> W54×H31.5×L145mm	4	NPN	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)
		PNP	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)
	6	NPN	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)
		PNP	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)
	8	NPN	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)
		PNP	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)




※1. Sold separately: Protection cover (CAP-PT), Waterproof cover (P96-M12-1)

Rated Current	Connection Life Cycle	Number Of M12 Connector Pins	Cable Length (m)	Protection Structure ^{*1}	Approval	Model
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT4-3DN5-5
		5	10			PT4-3DN5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT4-4DN5-5
		5	10			PT4-4DN5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT4-3DP5-5
		5	10			PT4-3DP5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT4-4DP5-5
		5	10			PT4-4DP5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT6-3DN5-5
		5	10			PT6-3DN5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT6-4DN5-5
		5	10			PT6-4DN5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT6-3DP5-5
		5	10			PT6-3DP5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT6-4DP5-5
		5	10			PT6-4DP5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT8-3DN5-5
		5	10			PT8-3DN5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT8-4DN5-5
		5	10			PT8-4DN5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT8-3DP5-5
		5	10			PT8-3DP5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT8-4DP5-5
		5	10			PT8-4DP5-10


Rated Current	Connection Life Cycle	Number Of M12 Connector Pins	Protection Structure ^{*1}	Approval	Model
Max. 0.5mA	Min. 200 operations	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT4-C3DN5
					PT4-C4DN5
Max. 0.5mA	Min. 200 operations	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT4-C3DP5
					PT4-C4DP5
Max. 0.5mA	Min. 200 operations	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT6-C3DN5
					PT6-C4DN5
Max. 0.5mA	Min. 200 operations	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT6-C3DP5
					PT6-C4DP5
Max. 0.5mA	Min. 200 operations	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT8-C3DN5
					PT8-C4DN5
Max. 0.5mA	Min. 200 operations	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT8-C3DP5
					PT8-C4DP5

Connectors / Connector Cables / Sensor Distribution Boxes / Sockets

Sensor Connector / Connector Cable /




Series	Number Of Ports	Input Logic	Output Type		Power Supply	Rated Current
			1-Signal (DC 2-Wire Type)	1-Signal (DC 3-Wire Type)		
M12 4-Pin Connector (Cable Type) Sensor Distribution Box PT Series <PT4>  W50×H27.5×L73mm <PT6>  W50×H27.5×L98mm <PT8>  W50×H27.5×L123mm	4	NPN	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●		
	6	NPN	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●		
	8	NPN	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●		
8	PNP	—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)	
		—	●			

※1. Sold separately: Protection cover (CAP-PT), Waterproof cover (P96-M12-1)

Appearance	Connector Standard	Connection	Connection Method	Cable Material	Cable Length (m)	Model
Sensor Distribution Box (PT-C) M23 Connector Cable CLD Series <CLD> 	M23	DC 3-wire type	Socket type	Oil-resistive PVC	4	CLDH12C-040
					6	CLDH12C-060
					8	CLDH12C-080
		DC 4-wire type	Socket type	Oil-resistive PVC	4	CLDH19C-040
					6	CLDH19C-060
					8	CLDH19C-080

Rated Current	Connection Life Cycle	Number Of M12 Connector Pins	Cable Length (m)	Protection Structure ^{*1}	Approval	Model
Max. 0.5mA	Min. 200 operations	4	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT4-2D
		4	5	IP67 (waterproof cover) IP52 (protection cover)		PT4-3DN
Max. 0.5mA	Min. 200 operations	4	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT4-3DP
Max. 0.5mA	Min. 200 operations	4	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT6-2D
		4	5	IP67 (waterproof cover) IP52 (protection cover)		PT6-3DN
Max. 0.5mA	Min. 200 operations	4	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT6-3DP
Max. 0.5mA	Min. 200 operations	4	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT8-2D
		4	5	IP67 (waterproof cover) IP52 (protection cover)		PT8-3DN
Max. 0.5mA	Min. 200 operations	4	5	IP67 (waterproof cover) IP52 (protection cover)	CE	PT8-3DP

Series	Number Of Pins	Rated Voltage	Rated Current	Terminal Fixing Torque	Bolt Standard	Ambient Temperature	Approval	Model
Standard Socket for Controllers PG Series <8-pin>  W38×H41×L21mm <11-pin>  W45×H43.4×L21mm	8-pin	250VAC	7A (resistive load)	0.8N·m	M3.5	-10 to 55°C	CE	PG-08
	11-pin	250VAC	7A (resistive load)	0.8N·m	M3.5	-10 to 55°C	CE	PG-11

Din Rail and Panel Mount Sockets for Controllers PS Series <8-pin>  W50×H70×L23.8mm <11-pin>  W50×H70×L23.8mm <8-pin>  W41×H67.5×L20mm	8-pin	250VAC	7A (resistive load)	0.8N·m	M3.5	-10 to 55°C	CE	PS-08(N)
	11-pin	250VAC	7A (resistive load)	0.8N·m	M3.5	-10 to 55°C	CE	PS-11(N)
	8-pin	250VAC	7A (resistive load)	0.75 to 0.95N·m	M3.5	-10 to 55°C	CE	PS-M8