

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>  <CLD> 	M12	DC 2-wire type	Socket type	PVC	2	CID2-2
					5	CID2-5
		DC 2-wire type (IEC standard)	Socket type	PVC	2	CLD2-2
					5	CLD2-5
	M12	DC 2-wire type	Plug type	PVC	2	CID2-2-I
					5	CID2-5-I
		DC 2-wire type	Plug type	PVC	2	CLD2-2-I
					5	CLD2-5-I
<CID>  <CLD> 	M12	DC 2-wire type	Plug type	PVC	2	CID2-2P
					5	CID2-5P
		DC 2-wire type	Plug type	PVC	2	CLD2-2P
					5	CLD2-5P
	M12	DC 3-wire type	Socket type	PVC	2	CID3-2
					5	CID3-5
		DC 3-wire type	Socket type	PVC	2	CLD3-2
					5	CLD3-5
<CID>  <CLD> 	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	Fender plated-through hole, Hole diameter: 1.0mm PCB thickness: 1.0 to 2.2mm	CNE-B■
2-line		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 <C1D4/C1A4> 	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			
	<C2D4/C2A4> 	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
<C3D4/C3A4> 		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
				Oil-resistive PVC	5	CIA2-5
					2	CIAH2-2
				PVC	5	CIAH2-5
					2	CLA2-2
				Oil-resistive PVC	5	CLA2-5
					2	CLAH2-2
					5	CLAH2-5
<CIA>  <CLA> 	M12	AC 2-wire type	Plug type	PVC	2	CIA2-2P
				Oil-resistive PVC	5	CIA2-5P
					2	CIAH2-2P
				PVC	5	CIAH2-5P
					2	CLA2-2P
				Oil-resistive PVC	5	CLA2-5P
					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
	M12	AC type	Socket-plug type	PVC	2	C4A4-2
					5	C4A4-5
<C1D4/C1A4> 	M12	DC type	Plug-plug type	PVC	2	C1D4-2P
					5	C1D4-5P
	M12	AC type	Plug-plug type	PVC	2	C1A4-2P
					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
			9	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: Mounting 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)
			—	●		
		PNP	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●		
	6	NPN	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●		
		PNP	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●		
	8	NPN	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●		
		PNP	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●		

※1. Sold separately: Mounting 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	Model
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover)	PT4-3DN5-5
		5	10	IP52 (mounting protection cover)	PT4-3DN5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover)	PT4-4DN5-5
		5	10	IP52 (mounting protection cover)	PT4-4DN5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover)	PT4-3DP5-5
		5	10	IP52 (mounting protection cover)	PT4-3DP5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover)	PT4-4DP5-5
		5	10	IP52 (mounting protection cover)	PT4-4DP5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover)	PT6-3DN5-5
		5	10	IP52 (mounting protection cover)	PT6-3DN5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover)	PT6-4DN5-5
		5	10	IP52 (mounting protection cover)	PT6-4DN5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover)	PT6-3DP5-5
		5	10	IP52 (mounting protection cover)	PT6-3DP5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover)	PT6-4DP5-5
		5	10	IP52 (mounting protection cover)	PT6-4DP5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover)	PT8-3DN5-5
		5	10	IP52 (mounting protection cover)	PT8-3DN5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover)	PT8-4DN5-5
		5	10	IP52 (mounting protection cover)	PT8-4DN5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover)	PT8-3DP5-5
		5	10	IP52 (mounting protection cover)	PT8-3DP5-10
Max. 0.5mA	Min. 200 operations	5	5	IP67 (waterproof cover)	PT8-4DP5-5
		5	10	IP52 (mounting protection cover)	PT8-4DP5-10

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

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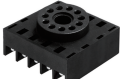
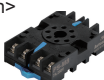
Sensor Connector / Connector Cable /

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)
			—	●		
		PNP	—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●		
	6	NPN	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●		
		PNP	—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●		
	8	NPN	●	—	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●		
		PNP	—	●	12-24VDC	2A (per signal), 4A (per port), 10A (total)
			—	●		

※1. Sold separately: Mounting 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}	Model
Max. 0.5mA	Min. 200 operations	4	5	IP67 (waterproof cover) IP52 (mounting protection cover)	PT4-2D
		4	5	IP67 (waterproof cover) IP52 (mounting protection cover)	PT4-3DN
Max. 0.5mA	Min. 200 operations	4	5	IP67 (waterproof cover) IP52 (mounting protection cover)	PT4-3DP
Max. 0.5mA	Min. 200 operations	4	5	IP67 (waterproof cover) IP52 (mounting protection cover)	PT6-2D
		4	5	IP67 (waterproof cover) IP52 (mounting protection cover)	PT6-3DN
Max. 0.5mA	Min. 200 operations	4	5	IP67 (waterproof cover) IP52 (mounting protection cover)	PT6-3DP
Max. 0.5mA	Min. 200 operations	4	5	IP67 (waterproof cover) IP52 (mounting protection cover)	PT8-2D
		4	5	IP67 (waterproof cover) IP52 (mounting protection cover)	PT8-3DN
Max. 0.5mA	Min. 200 operations	4	5	IP67 (waterproof cover) IP52 (mounting protection cover)	PT8-3DP

Series	Number Of Pins	Rated Voltage	Rated Current	Terminal Fixing Torque	Bolt Standard	Ambient Temperature	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	PG-08
	11-pin	250VAC	7A (resistive load)	0.8N·m	M3.5	-10 to 55°C	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	PS-08(N)
	11-pin	250VAC	7A (resistive load)	0.8N·m	M3.5	-10 to 55°C	PS-11(N)
	8-pin	250VAC	7A (resistive load)	0.75 to 0.95N·m	M3.5	-10 to 55°C	PS-M8