

Product Discontinuation Notices

Programmable Controllers

Issue Date
October 1, 2021

No. 2021078CE

Discontinuation Notice of RFID System ID Sensor Units CJ1W-V600 series, CS1W-V600 series.

Product Discontinuation

ID Sensor Unit



Model CJ1W-V600C11
Model CJ1W-V600C12
Model CS1W-V600C11
Model CS1W-V600C12



Recommended Replacement

ID Sensor Unit

Model CJ1W-V680C11
Model CJ1W-V680C12
Model CS1W-V680C11
Model CS1W-V680C12

[Final order entry date]

The end of September, 2024

[Date of The Last Shipping]

The end of December, 2024

[Scheduled date of maintenance close]

The end of September, 2031

[Caution on recommended replacement]

Since the communication frequency is different, the antenna and RF tag cannot be used as they are. Change to V680 series antenna and RF tag.

The ID Sensor Unit has additional functions added to the V600 series in the form of an upward, it can be replaced with the V680 series from the V600 series is available.

Please refer to the user's manual for details.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
CJ/CS1W-V6801□	**	**	*	**	*	*	*

** : Compatible

* : The change is a little/Almost compatible

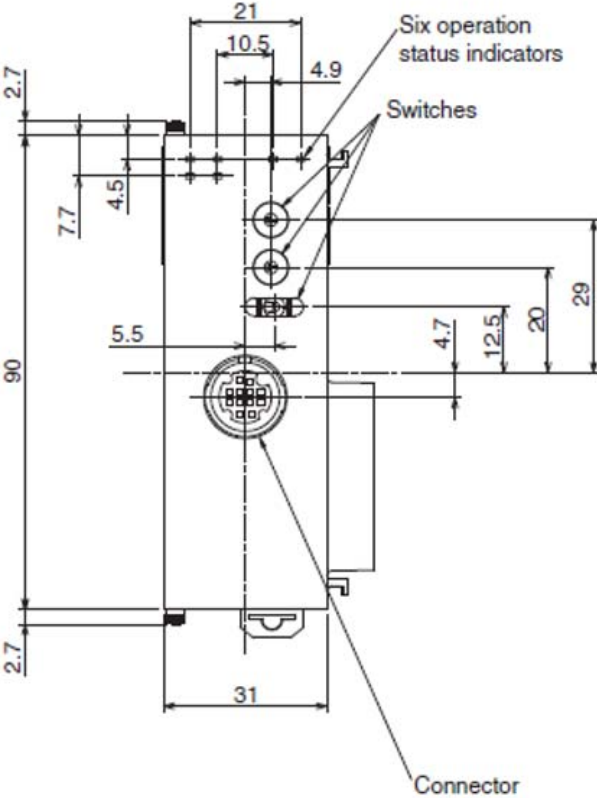
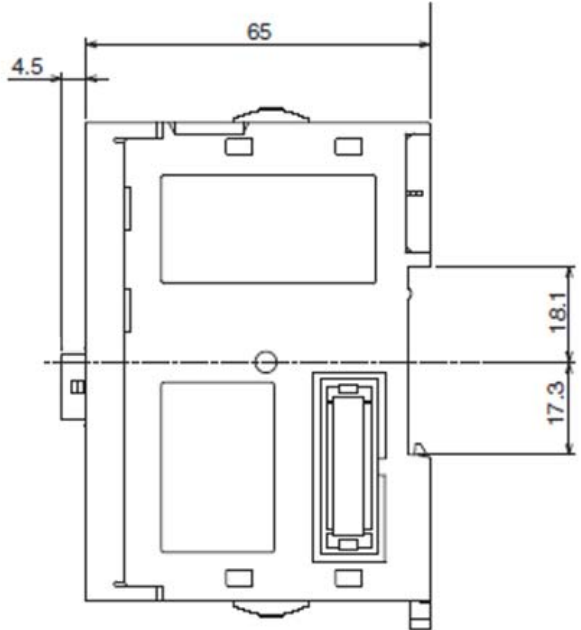
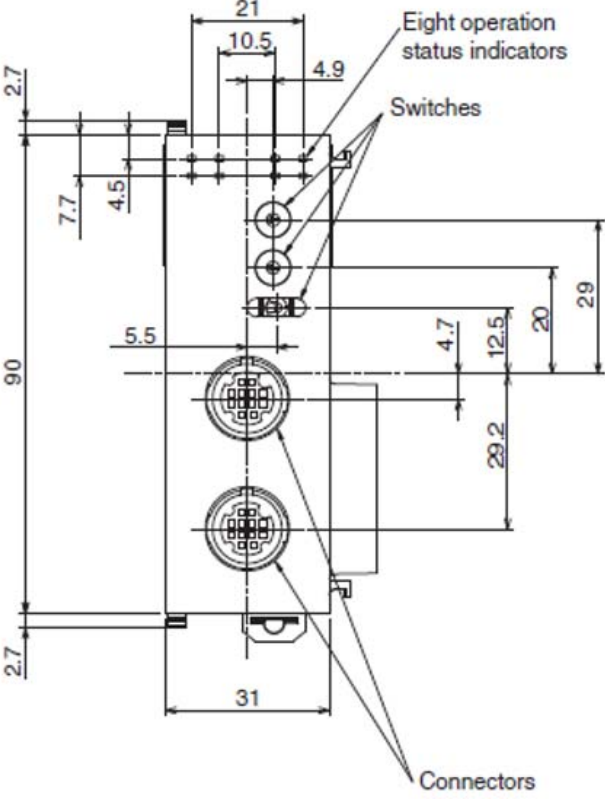
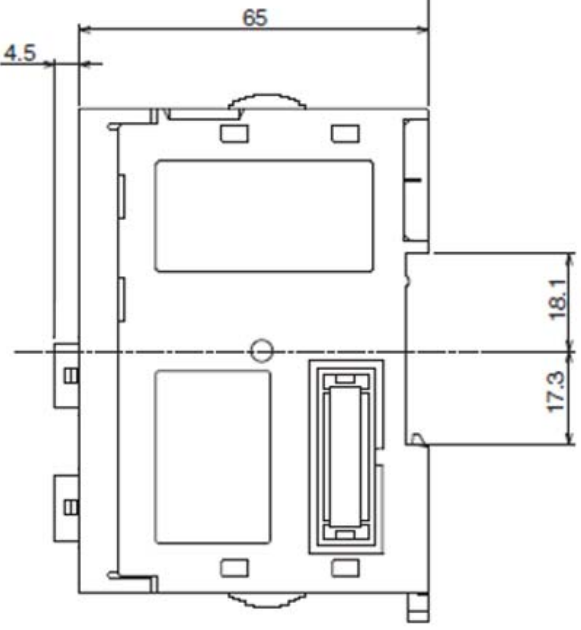
-- : Not compatible

- : No corresponding specification

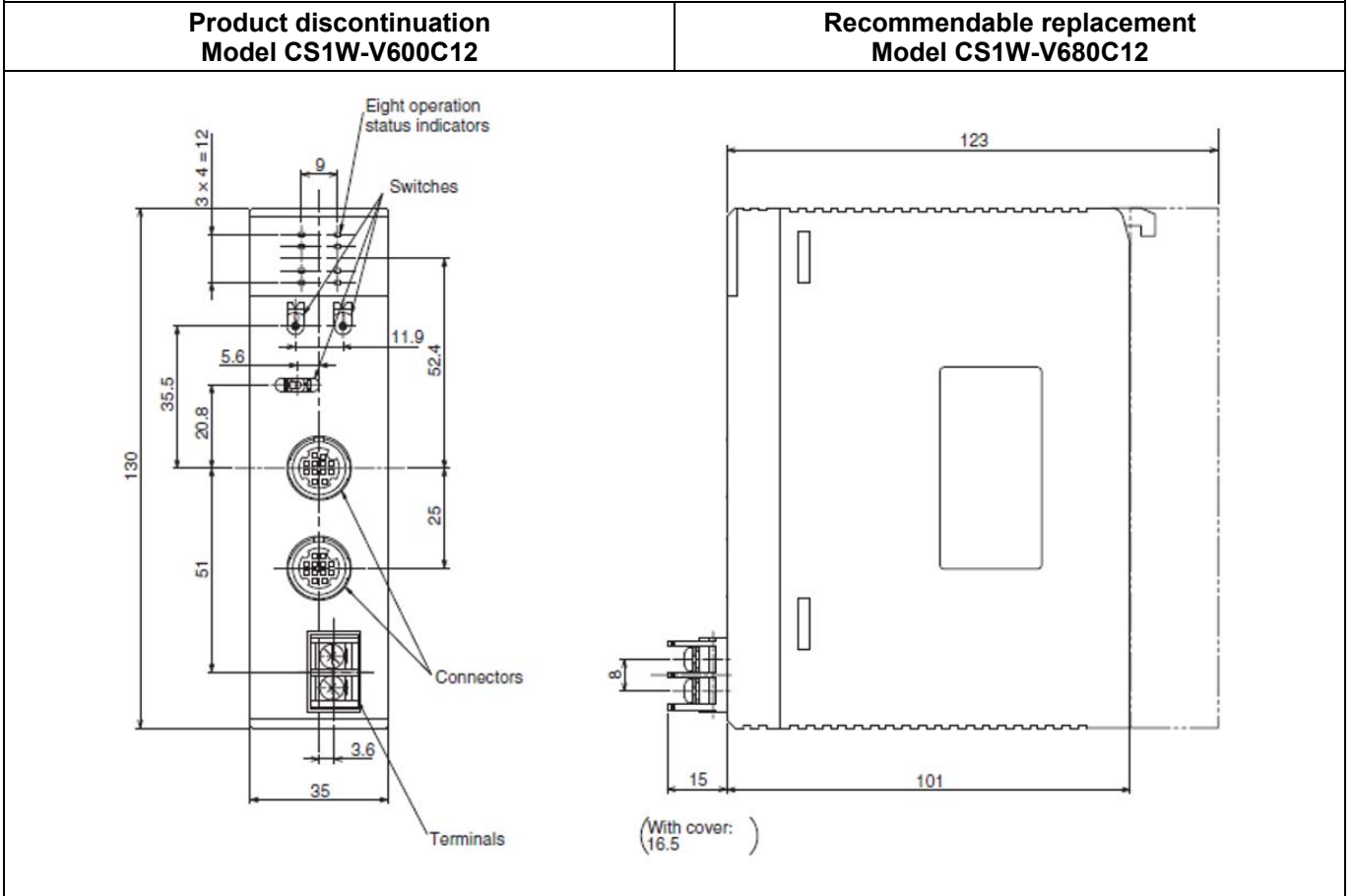
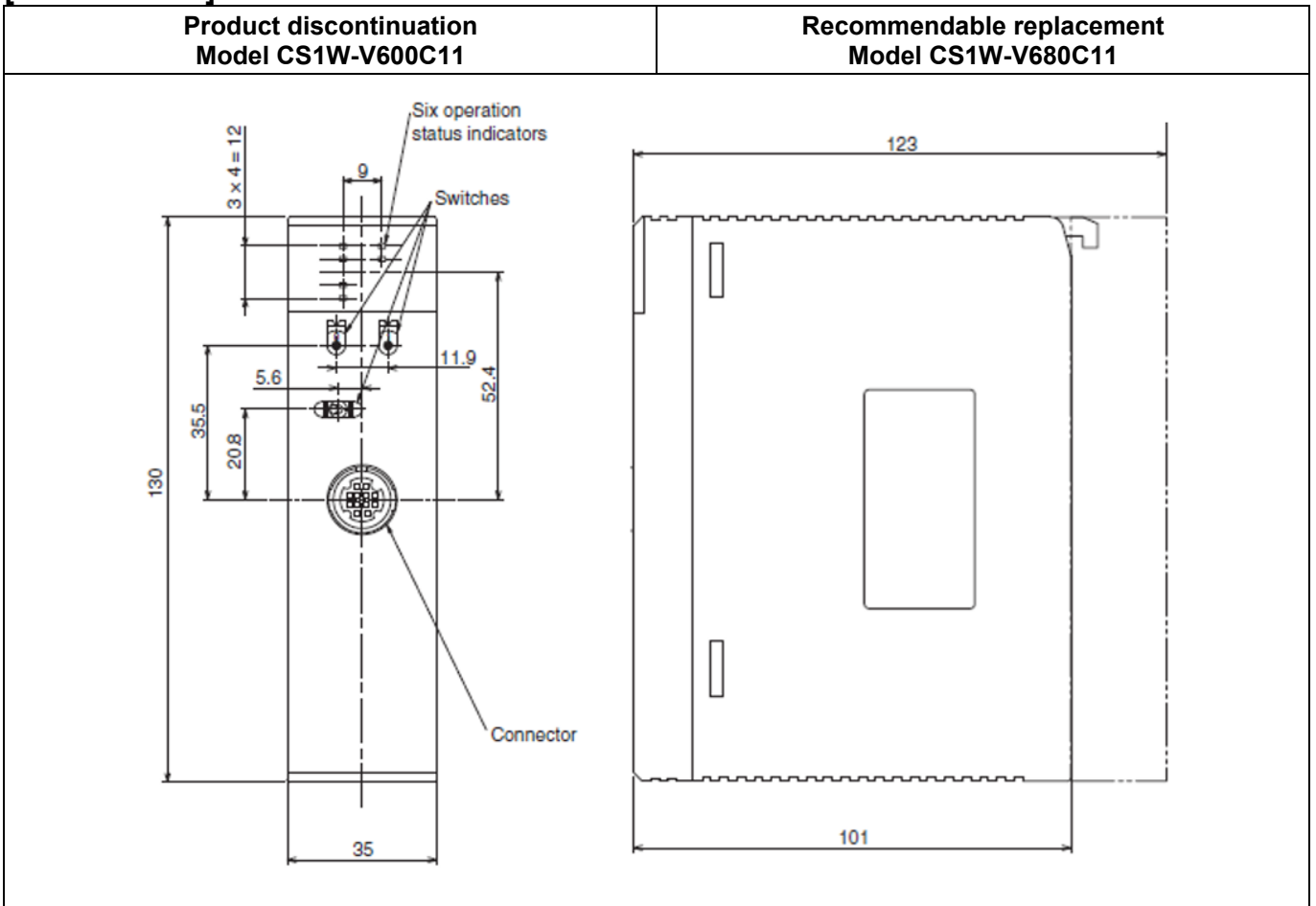
[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
CJ1W-V600C11	CJ1W-V680C11
CJ1W-V600C12	CJ1W-V680C12
CS1W-V600C11	CS1W-V680C11
CS1W-V600C12	CS1W-V680C12

[Dimensions]

<p>Product discontinuation Model CJ1W-V600C11</p>	<p>Recommendable replacement Model CJ1W-V680C11</p>
 <p>Diagram showing front view of Model CJ1W-V600C11. Dimensions include: 21 (width of indicator area), 10.5 (width of indicator area), 4.9 (width of indicator area), 2.7 (top offset), 7.7 (top offset), 4.5 (top offset), 90 (total height), 5.5 (width of connector area), 31 (width of connector area), 4.7 (width of connector area), 12.5 (width of connector area), 20 (width of connector area), 29 (width of connector area), and 2.7 (bottom offset). Labels include: Six operation status indicators, Switches, and Connector.</p>	 <p>Diagram showing front view of Model CJ1W-V680C11. Dimensions include: 65 (width), 4.5 (top offset), 18.1 (height of top section), and 17.3 (height of bottom section).</p>
<p>Product discontinuation Model CJ1W-V600C12</p>	<p>Recommendable replacement Model CJ1W-V680C12</p>
 <p>Diagram showing front view of Model CJ1W-V600C12. Dimensions include: 21 (width of indicator area), 10.5 (width of indicator area), 4.9 (width of indicator area), 2.7 (top offset), 7.7 (top offset), 4.5 (top offset), 90 (total height), 5.5 (width of connector area), 31 (width of connector area), 4.7 (width of connector area), 12.5 (width of connector area), 20 (width of connector area), 29 (width of connector area), 29.2 (width of connector area), and 2.7 (bottom offset). Labels include: Eight operation status indicators, Switches, and Connectors.</p>	 <p>Diagram showing front view of Model CJ1W-V680C12. Dimensions include: 65 (width), 4.5 (top offset), 18.1 (height of top section), and 17.3 (height of bottom section).</p>

[Dimensions]



[Characteristics] (CJ series)

Item	Product discontinuation		Recommendable replacement	
	Model CJ1W-V600C11	Model CJ1W-V600C12	Model CJ1W-V680C11	Model CJ1W-V680C12
Influence on CPU Unit's cycle time	0.15 ms	0.3 ms	0.15 ms	0.3 ms
Internal current consumption	5 V DC, 260 mA max. 24 VDC, 120 mA max.	5 VDC, 320 mA max. 24 VDC, 240 mA max.	V680-HA63[] Amplifier connected: 5 VDC, 260 mA 24 VDC, 130 mA V680-H01 Antenna connected: 5 VDC, 260 mA 24 VDC, 280 mA	5 VDC, 320 mA 24 VDC, 260 mA
Weight	120 g max.	130 g max.	120 g max.	130 g max.
Mounting location	CJ-series Rack or CJ-series Expansion Rack (Cannot be mounted to C200H Expansion I/O Racks or SYSMAC BUS Slave Racks.)			
No. of Units per Rack	4 Units maximum per Rack	2 Units maximum per Rack	CJ1W-PA205R:V680-HA63[] Amplifier connected: 4 per Rack V680-H01 Antenna connected: 2 per Rack CJ1W-PA202: V680-HA63[] Amplifier connected: 2 per Rack V680-H01 Antenna connected: 1 per Rack (See note 1.)	CJ1W-PA205R:2 CJ1W-PA202:1 (See note 1.)
Connectable Antennas	V600-series R/W Heads (V600-H[][]) 1 Head	V600-series R/W Heads (V600-H[][]) 1 or 2 Heads	V680-series Amplifiers (V680-HA63[]) V680-series Antennas (V680-H[][]) One channel (See note 2.)	V680-series Amplifiers (V680-HA63[]) V680-series Antennas (V680-H[][]) One or two channels (See note 2.)
Applicable RF Tags	V600-series Data Carriers(V600-D[][])		V680-series RF Tags(V680-D[][])	
No. of allocated unit numbers	1	2	1	2
No. of allocated words	10 words	20 words	10 words	20 words
Control protocol	Special protocol			
Data transfer quantity	2,048 bytes max. (160 bytes/scan)	2,048 bytes max. /Head (160 bytes/scan)	2,048 bytes max. (160 bytes/scan) (See note 3.)	2,048 bytes max. /channel (160 bytes/scan) (See note 3.)
Diagnostic functions	ID Sensor Unit error Communications error detection with Data Carriers (3) Head 24-V power supply error		(1) CPU watchdog timer Communications error detection with RF Tag Antenna power supply error	
Ambient operating temperature	0 to 55°C (with no icing)			
Ambient operating humidity	10% to 95% (with no condensation)			
Ambient storage temperature	-20 to 75°C (with no icing)			

[Characteristics] (CJ series)

Item	Product discontinuation		Recommendable replacement	
	Model CJ1W-V600C11	Model CJ1W-V600C12	Model CJ1W-V680C11	Model CJ1W-V680C12
Ambient storage humidity	10% to 95% (with no condensation)			
Vibration resistance	10 to 57 Hz with 0.075 mm double amplitude and 50 to 150 Hz 9.8-m/s ² maximum acceleration, 10 sweeps of 8 minutes each in three directions			
Shock resistance	147 m/s ²			
Degree of protection	IEC60529, IP20			

- Note 1. "Rack" indicates either the CPU rack or an Expansion Rack.
 2. The V680-H01 Antenna can be connected only to the CJ1W-V680C11 ID Sensor Unit. It cannot be used with the CJ1W-V680C12 ID Sensor Unit.
 3. If using intelligent I/O instructions is specified as the data transfer method, up to 2,048 bytes can be Transferred in one scan.

[Communications Specifications] (CJ series)

Item	Product discontinuation		Recommendable replacement	
	Model CJ1W-V600C11	Model CJ1W-V600C12	Model CJ1W-V680C11	Model CJ1W-V680C12
Communications frequency	530 kHz		13.56 MHz	
Communications controls	(1) Changing EEPROM (battery-free) Data Carrier communications mode (distance priority or time priority) (2) Write verification (3) Auto Wait Time Setting		(1) RF Tag Communications Speed (Normal Mode or High-speed Mode) (2) Write Verification (3) Auto Wait Time Setting (4) UID Addition Setting (5) Write Protection Disable Setting (6) Antenna Connection Setting (One-channel ID Sensor Unit (CJ1W-V680C11)) (7) Results Monitor Output Setting	
Commands	Read Write Bit Set/Bit Clear Mask Bit Write Calculation Write Data Fill Data Check Number of Writes Control	Read Write Bit Set/Bit Clear Mask Bit Write Calculation Write Data Fill Data Check Number of Writes Control Copy	Read Write Bit Set/Bit Clear Mask Bit Write Calculation Write Data Check Data Check Number of Writes Control Read with Error Correction Write with Error Correction UID Read Noise Measurement	Read Write Bit Set/Bit Clear Mask Bit Write Calculation Write Data Check Data Check Number of Writes Control Read with Error Correction Write with Error Correction UID Read Noise Measurement Copy
Communications specification	trigger Single auto Repeat auto		Single trigger Single auto Repeat auto FIFO trigger (See note) FIFO repeat (See note) Multi-access trigger (See note) Multi-access repeat (See note)	

Note: FIFO trigger, FIFO repeat, Multi-access trigger, and Multi-access repeat specification cannot be used for communicating with V680-D1KP[] RF Tag.

[Characteristics] (CS series)

Item	Product discontinuation		Recommendable replacement	
	Model CS1W-V600C11	Model CS1W-V600C12	Model CS1W-V680C11	Model CS1W-V680C12
Influence on CPU Unit's cycle time	0.15 ms	0.3 ms	0.15 ms	0.3 ms
External power supply	-	24 VDC +10%/-15%, 360 mA	-	24 VDC +10%/-15%, 360 mA
Internal current consumption	5 V DC, 260 mA max. 26 VDC, 120 mA max.	5 VDC, 320 mA max. 24 VDC, 0 mA max.	V680-HA63[] Amplifier connected: 5 VDC, 260 mA 24 VDC, 125 mA V680-H01 Antenna connected: 5 VDC, 260 mA 24 VDC, 280 mA	5 VDC, 320 mA 24 VDC, 0 mA
Weight	180 g max.	300 g max.	180 g max.	300 g max.
Mounting location	CS-series CPU Rack or CS-series Expansion Rack (Cannot be mounted to C200H Expansion I/O Racks or SYSMAC BUS Slave Racks.)			
No. of Units per Rack	5 per Rack (CPU Rack or Expansion Rack)	10 per Rack (CPU Rack or Expansion Rack)	V680-HA63[] Amplifier connected: 5 per Rack V680-H01 Antenna connected: 2 per Rack (See note 1.)	10 per Rack (See note 1.)
Connectable Antennas	V600-series R/W Heads(V600-H[][]) 1 Head	V600-series R/W Heads(V600-H[][]) 1 or 2 Heads	V680-series Amplifiers(V680-HA63[]) V680-series Antennas(V680-H[][]) One channel (See note 2.)	V680-series Amplifiers (V680-HA63[]) V680-series Antennas(V680-H[][]) One or two channels (See note 2.)
Applicable RF Tags	V600-series Data Carriers(V600-D[][])		V680-series RF Tags(V680-D[][])	
No. of allocated unit numbers	1	2	1	2
No. of allocated words	10 words	20 words	10 words	20 words
Control protocol	Special protocol			
Data transfer quantity	2,048 bytes max. (160 bytes/scan)	2,048 bytes max. /Head (160 bytes/scan)	2,048 bytes max. (160 bytes/scan) (See note 3.)	2,048 bytes max. /channel (160 bytes/scan) (See note 3.)
Diagnostic functions	ID Sensor Unit error Communications error detection with Data Carriers Head 24-V power supply error		(1) CPU watchdog timer (2) Communications error detection with RF Tag (3) Antenna power supply error	
Ambient operating temperature	0 to 55°C (with no icing)			
Ambient operating humidity	10% to 95% (with no condensation)			
Ambient storage temperature	-20 to 75°C (with no icing)			
Ambient storage humidity	10% to 95% (with no condensation)			
Vibration resistance	10 to 57 Hz with 0.075 mm double amplitude and 50 to 150 Hz 9.8-m/s ² maximum acceleration, 10 sweeps of 8 minutes each in three directions			
Shock resistance	147 m/s ²			
Degree of protection	IEC60529, IP20			

Note 1. "Rack" indicates either the CPU rack or an Expansion Rack.

2. The V680-H01 Antenna can be connected only to the CS1W-V680C11 ID Sensor Unit.
It cannot be used with the CS1W-V680C12 ID Sensor Unit.

3. If using intelligent I/O instructions is specified as the data transfer method, up to 2,048 bytes can be transferred in one scan.

[Communications Specifications](CS series)

Item	Product discontinuation		Recommendable replacement	
	Model CS1W-V600C11	Model CS1W-V600C12	Model CS1W-V680C11	Model CS1W-V680C12
Communications frequency	530 kHz		13.56 MHz	
Communications controls	(1) Changing EEPROM (battery-free) Data Carrier communications mode (distance priority or time priority) (2) Write verification (3) Auto Wait Time Setting		(1) RF Tag Communications Speed (Normal Mode or High-speed Mode) (2) Write Verification (3) Auto Wait Time Setting (4) UID Addition Setting (5) Write Protection Disable Setting (6) Antenna Connection Setting (One-channel ID Sensor Unit (CS1W-V680C11)) (7) Results Monitor Output Setting	
Commands	Read Write Bit Set/Bit Clear Mask Bit Write Calculation Write Data Fill Data Check Number of Writes Control	Read Write Bit Set/Bit Clear Mask Bit Write Calculation Write Data Fill Data Check Number of Writes Control Copy	Read Write Bit Set/Bit Clear Mask Bit Write Calculation Write Data Check Number of Writes Control Read with Error Correction Write with Error Correction UID Read Noise Measurement	Read Write Bit Set/Bit Clear Mask Bit Write Calculation Write Data Check Number of Writes Control Read with Error Correction Write with Error Correction UID Read Noise Measurement Copy
Communications specification	trigger Single auto Repeat auto		Single trigger Single auto Repeat auto FIFO trigger (See note) FIFO repeat (See note) Multi-access trigger (See note) Multi-access repeat (See note)	

Note: FIFO trigger, FIFO repeat, Multi-access trigger, and Multi-access repeat specification cannot be used for communicating with V680-D1KP[] RF Tag.

Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.