

RFID System V680S Series

RFID Conforming to ISO/IEC 18000-3 (15693)



» Easy Operation using a web browser

» 3 in 1 RFID: Antenna, Amplifier & Controller

» Easy Connection via Ethernet

OMRON Prom

Over 25 Years of History
and Experience

Experience in all sectors of
Transportation Manufacturing.
Bringing High quality to your
Manufacturing Process.



Industry-leading service for
RFID system with over 25 years of
experience.

ises 2 Trusts.

Radio Regulations Compliance for More than 45 Countries



Radio waves for mobile phone, TV, and Industrial Components are national public goods. RFID system must comply with Radio Regulations.

Continued Compliance that our products can comply with Radio Regulations in more countries as global standards for RFID system.

USA	The Philippines
Canada	Malaysia
South Korea	Europe
China	Mexico
Taiwan	India
Thailand	Brazil
Singapore	32 European countries

Simple 3 in 1 RFID Featuring the 3 " Easy "

3in1 Plus+ Ethernet
RFID



CONTROLLER

ANTENNA

AMPLIFIER

R
V



Easy Connection

Ethernet(Modbus TCP) is provided as a standard feature. PLC direct connection.

▶ P.6



Easy Installation

Stable communications are possible just by installing within a specified distance.

▶ P.7



Easy Operation

The Interface using a web browser enables setting for reading/writing data without special software.

▶ P.8

FID system 680S Series

Easy Connection

Easy connection to a PLC
with "One Cable" via Ethernet

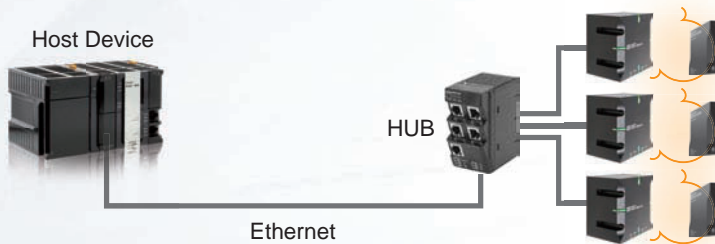
Wiring work can be reduced, and a simple system can be configured easily.

One Cable One Connection

Modbus TCP enables any PLC from any manufacturer to be connected without a converter,

Easy System Expansion

Multiple Reader/Writers can be easily connected to a PLC using a Switching HUB

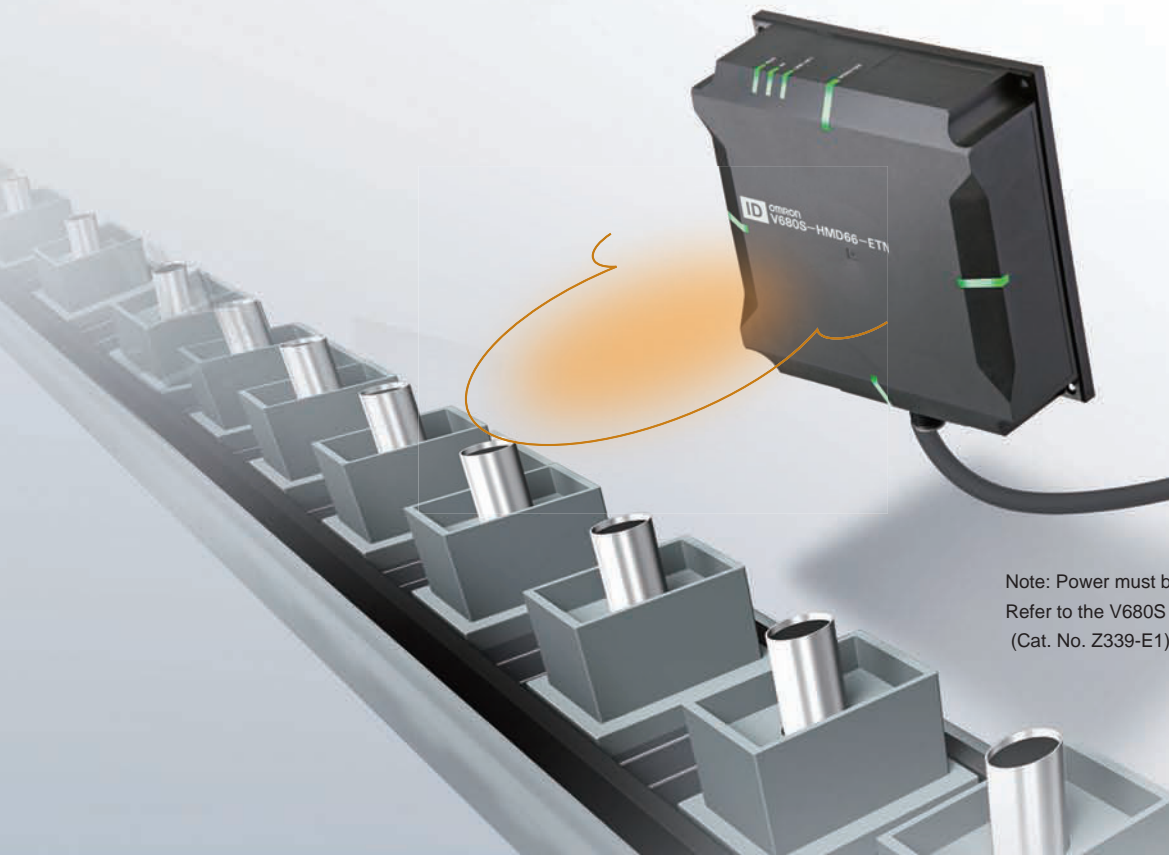


Plus+

The Connection Procedure Manual for OMRON NJ Series and CJ Series is available.

Note : Contact your OMRON sales representative for the Connection Procedure Manual.

Ethernet

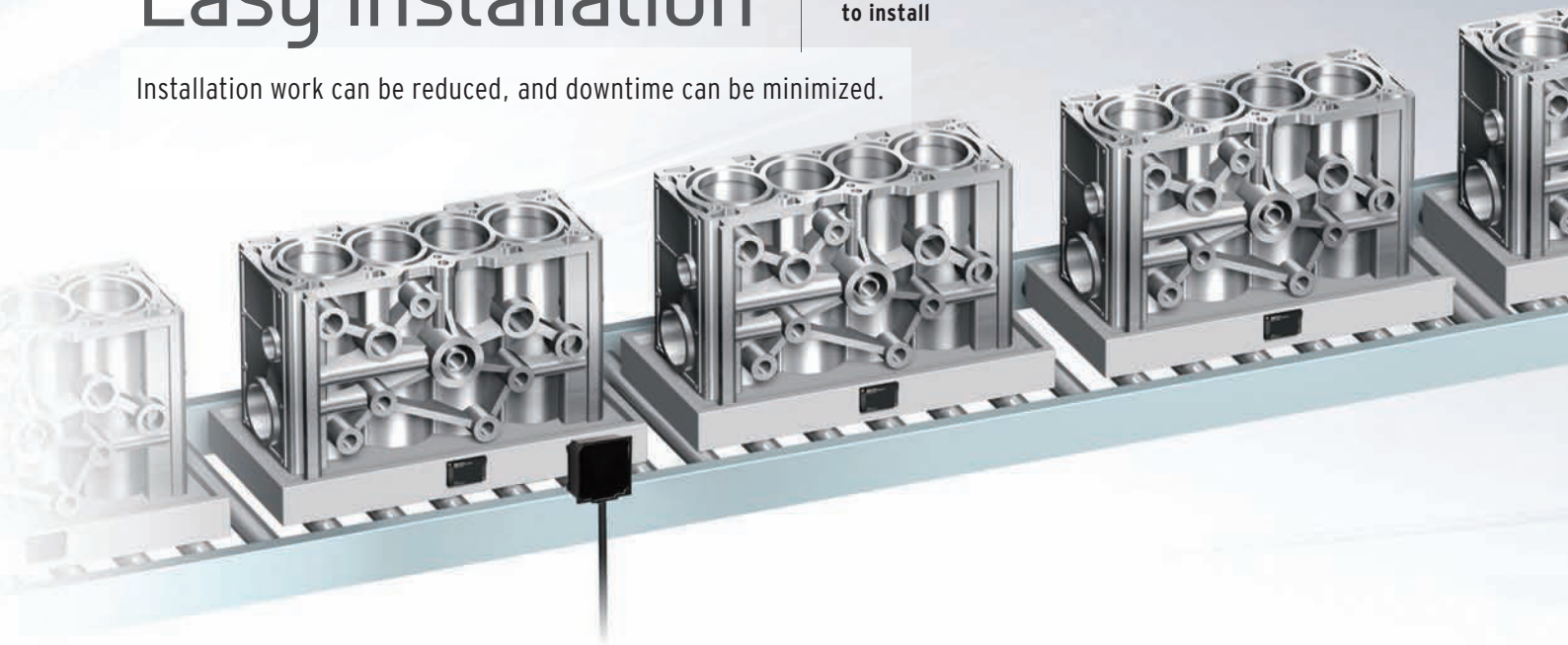


Note: Power must be supplied to the Reader/Writer.
Refer to the V680S Series User's Manual
(Cat. No. Z339-E1) for details.

Easy Installation

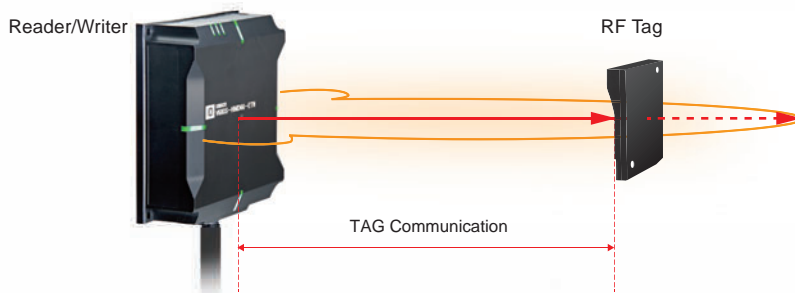
Easy to find the best location to install

Installation work can be reduced, and downtime can be minimized.



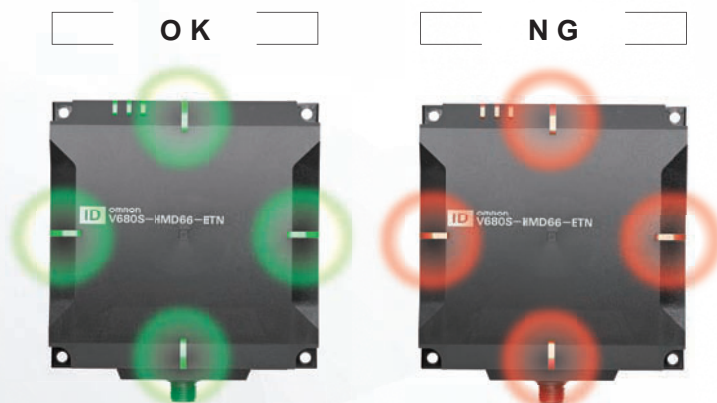
Wide Communication Range allows Easy Installation

Installation according to the communication specifications enables more stable communications even in harsh FA environments. (Refer to the communication specifications on P.14.)

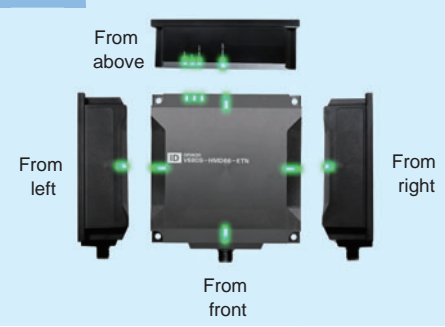


Visualized Communications Status

On-site operators can easily check the communications status with the indicators of the Reader/Writer. The indicators using easy-to-see high-brightness LED can be easily seen from a distance.



Plus+ Communications status can be checked from four directions.



Easy Operation

Web browser for setting, monitoring,
and communications.

No special software nor expert knowledge is required.

WEB Browser Function

Connection with a computer enables all operations from setting to monitoring anywhere.

STEP 1. Connect a computer with the V680S.

STEP 2. Enter an IP address on the computer.

STEP 3. A setting screen appears on the computer.

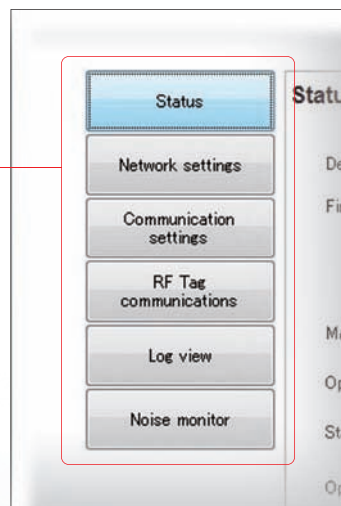


Functions

Users can make communications settings, monitor noise, and display the history.

Four Language Support

Select from four languages: English, Chinese, Korea and Japanese



Plus+

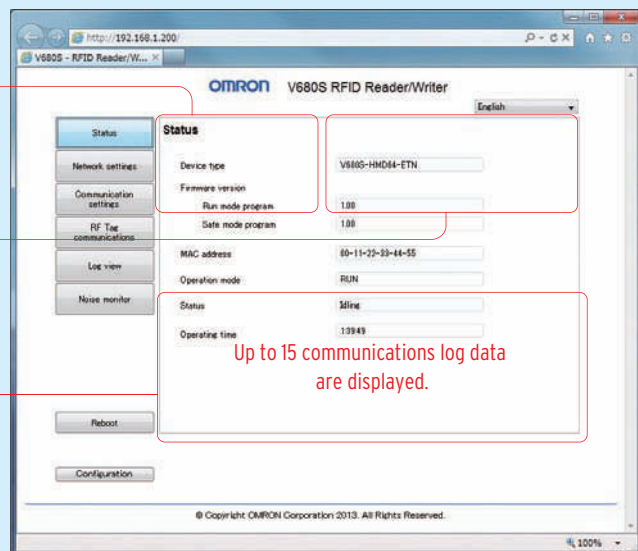
Example of WEB Browser Window

Tag Communications

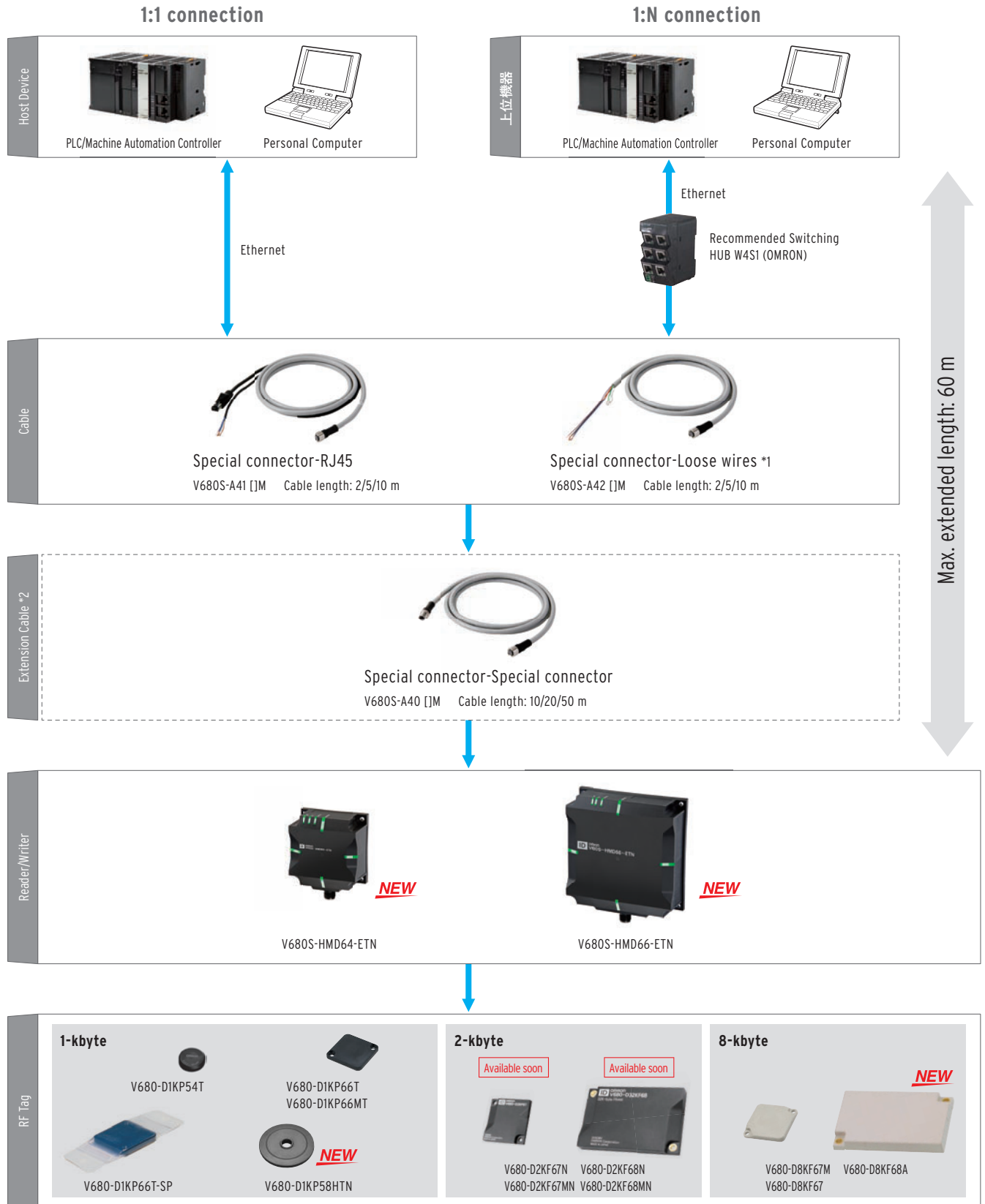
1. Select Read or Write.

2. Enter the register number and read/write data size.

3. Click the Send Button to display read/write data.



System Configuration



*1. A customer should treat wires terminal of the connector.

*2. Only one extension cable can be used.

RFID System V680S Series










3 in 1 RFID: Antenna, Amplifier & Controller

- Conforms to ISO/IEC 18000-3 (15693).
- Standard-feature Ethernet (Modbus TCP) enables easy connection with one cable.
- Easy installation and "visualized" communications status minimize startup work and downtime.
- WEB browser can be used for setting, monitoring, and communications with RF tags.





Ordering Information

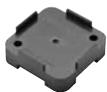


RF Tag

Type	Memory capacity	Appearance	Size	Metallic compatibility	Model
Battery-less	1 kbytes		20 dia. × 2.7 mm	For flush mounting on nonmetallic surface	V680-D1KP54T
			34 × 34 × 3.5 mm	For flush mounting on metallic surface	V680-D1KP66MT
			95 × 36.5 × 6.5 mm	For flush mounting on nonmetallic surface	V680-D1KP66T
Environment-resistant type Battery-less	1 kbytes		95 × 36.5 × 6.5 mm	For flush mounting on nonmetallic surface	V680-D1KP66T-SP
High-temperature type Battery-less			80 dia. × t10 mm	For mounting with special attachment	V680-D1KP58HTN <i>NEW</i>
Battery-less	2 kbytes		40 × 40 × 4.5 mm	For flush mounting on metallic surface	V680-D2KF67MN <i>Coming soon</i>
		For flush mounting on nonmetallic surface		V680-D2KF67N <i>Coming soon</i>	
			86 × 54 × 5 mm	For flush mounting on metallic surface	V680-D2KF68MN <i>Coming soon</i>
		For flush mounting on nonmetallic surface		V680-D2KF68N <i>Coming soon</i>	
	8 kbytes		40 × 40 × 4.5 mm	For flush mounting on metallic surface	V680-D8KF67M
		For flush mounting on nonmetallic surface		V680-D8KF67	
	86 × 54 × 10 mm	For flush mounting on nonmetallic surface	V680-D8KF68A <i>NEW</i>		



Reader/Writer

Type	Appearance	Size	Metallic compatibility	Model
Reader/Writer		75 × 75 × 40 mm	Ethernet (TCP/IP: Modbus TCP)	V680S-HMD64-ETN <i>NEW</i>
		120 × 120 × 40 mm	Ethernet (TCP/IP: Modbus TCP)	V680S-HMD66-ETN <i>NEW</i>


RF Tag Attachment

Type	Appearance	Model
For the V680-D1KP66T		V600-A86
For the V680-D1KP58HTN		V680-A80
For the V680-D1KP54T		V700-A80

Cable




Type	Appearance	Length	Model
Special connector – RJ45		2 m	V680S-A41 2M NEW
		5 m	V680S-A41 5M NEW
		10 m	V680S-A41 10M NEW
Special connector – Loose wires		2 m	V680S-A42 2M NEW
		5 m	V680S-A42 5M NEW
		10 m	V680S-A42 10M NEW

Extension Cable

Type	Appearance	Length	Model
Special connector – Special connector		10 m	V680S-A40 10M NEW
		20 m	V680S-A40 20M NEW
		50 m	V680S-A40 50M NEW

Note: The maximum extendable cable length using the cable and extension cable is 60 m. Only one extension cable can be used.

Industrial Switching Hubs (Recommended Hubs)

Type	Appearance	Specifications			Model
		Functions	No. of ports	Failure detection	
Industrial Switching Hubs		Quality of Service (QoS): EtherNet/IP control data priority Failure detection: Broadcast storm and LSI error detection 10/100BASE-TX, Auto-Negotiation	3	No	W4S1-03B
			5	No	W4S1-05B
			5	Yes	W4S1-05C

Ratings and Performance

RF Tag (1-kbyte Memory)

Item	Model	V680-D1KP54T	V680-D1KP66T	V680-D1KP66MT	V680-D1KP66T-SP
Memory capacity		1,000 bytes (user area)			
Memory type		EEPROM			
Data retention time		10 years after writing (85 °C or less), 0.5 year after writing (85 °C to 125 °C) Total data retention at high temperatures exceeding 125 °C is 10 hours *1			10 years after writing (85 °C or less)
Write endurance		100,000 writes for each block (25 °C)			
Ambient operating temperature (during transmission)		-25 to 85 °C (with no icing)			-25 to 70 °C (with no icing)
Ambient storage temperature (during data backup)		-40 to 125 °C (with no icing) Heat resistance: 1,000 thermal cycles each of 30 minutes at -10 °C/150 °C, High temperature storage: 1,000 hours at 150 °C *2 200 thermal cycles each of 30 minutes at -10 °C/180 °C, High temperature storage: 200 hours at 180 °C *3			-40 to 110 °C (with no icing)
Ambient operating humidity		35 to 95%			
Degree of protection		IP67 (IEC 60529:2001) Oil resistance equivalent to IP67G (JIS C 0920:2003, Appendix 1) *4	IP67 (IEC 60529:2001) Oil resistance equivalent to IP67G (JIS C 0920:2003, Appendix 1) *4		IP67
Vibration resistance		No abnormality after application of 10 to 2,000 Hz, 1.5-mm double amplitude, acceleration: 150 m/s ² , 10 sweeps each in X, Y, and Z directions for 15 minutes each			
Shock resistance		No abnormality after application of 500 m/s ² , 3 times each in X, Y, and Z directions (Total: 18 times)			
Appearance		20 dia. × 2.7 mm	34 × 34 × 3.5 mm		95 × 36.5 × 6.5 mm (excluding protruding parts)
Materials		PPS resin			Exterior: PFA fluororesin RF Tag filling: PPS resin
Weight		Approx. 2 g	Approx. 6 g	Approx. 7.5 g	Approx. 20 g
Metal countermeasures		None	None	Provided	None

*1 After storing data at high temperatures, rewrite the data even if changes are not required. High temperatures are those exceeding 125 °C up to 180 °C.

*2 150 °C heat resistance: The heat resistance has been checked at 150 °C for up to 1,000 hours, and thermal shock has been checked through testing 1,000 thermal cycles each of 30 minutes at -10/150 °C. (Test samples: 22, defects: 0)

*3 180 °C heat resistance: The heat resistance has been checked at 180 °C for up to 200 hours, and thermal shock has been checked through testing 200 thermal cycles each of 30 minutes at -10 °C/180 °C. (Test samples: 22, defects: 0)

*4 Oil resistance has been tested using a specific oil as defined in the OMRON test method.

Note: For details, refer to the User's Manual (Cat. No. Z339).

RF Tag (1-kbyte Memory with High-temperature Capability)

Item	Model	V680-D1KP58HTN
Memory capacity		1,000 bytes (user area)
Memory type		EEPROM
Data Retention		10 years after writing (85 °C or less), 0.5 year after writing (85 °C to 125 °C) Total data retention at high temperatures exceeding 125 °C is 10 hours *1
Write Endurance		100,000 writes for each block (25 °C)
Ambient operating temperature (during transmission)		-25 to 85 °C (with no icing)
Ambient storage temperature (during data backup)		-40 to 250 °C (with no icing) (Data retention: -40 to 125 °C)
Ambient operating humidity		35 to 95%
Degree of protection		IP67 (IEC 60529:2001) Oil resistance equivalent to IP67G (JIS C 0920:2003, Appendix 1) *2
Vibration resistance		No abnormality after application of 10 to 2,000 Hz, 1.5-mm double amplitude, acceleration: 150 m/s ² , 10 sweeps each in X, Y, and Z directions for 15 minutes each
Shock resistance		No abnormality after application of 500 m/s ² , 3 times each in X, Y, and Z directions (Total: 18 times)
Materials		Exterior: PPS resin
Weight		Approx. 70 g

*1. After storing data at high temperatures, rewrite the data even if changes are not required. High temperatures are those exceeding 125 °C up to 180 °C.

*2 Oil resistance has been tested using a specific oil as defined in the OMRON test method.

RF Tag (8-kbyte Memory)

Item	Model	V680-D8KF67	V680-D8KF67M	V680-D8KF68A
Memory capacity		8,192 bytes (user area)		
Memory type		FRAM		
Data Retention *1		10 years after writing (70 °C or less), 6 years after writing (70 °C to 85 °C)		
Write Endurance		10 billion writes for each block, Number of accesses: *2 10 billion writes		
Ambient operating temperature (during transmission)		-20 to 85 °C (with no icing)		
Ambient storage temperature (during data backup)		-40 to 85 °C (with no icing)		
Ambient operating humidity		35% to 85%		
Degree of protection		IP67 (IEC 60529:2001) Oil resistance equivalent to IP67G (JIS C 0920:2003, Appendix 1) *3		
Vibration resistance		No abnormality after application of 10 to 2,000 Hz, 1.5-mm double amplitude, acceleration: 150 m/s ² , 10 sweeps each in X, Y, and Z directions for 15 minutes each		No abnormality after application of 10 to 500 Hz, 1.5-mm double amplitude, acceleration: 100 m/s ² , 10 sweeps each in X, Y, and Z directions for 11 minutes each
Shock resistance		No abnormality after application of 500 m/s ² , 3 times each in X, Y, and Z directions (Total: 18 times)		
Dimensions		40 × 40 × 4.5 mm		86 × 54 × 10 mm
Materials		Case: PBT resin, Filling: Epoxy resin		
Weight		Approx. 8 g	Approx. 8.5 g	Approx. 50 g
Metal countermeasures		None	Provided	None

*1 Refer to the User's Manual (Cat. No. Z339) for data retention time for temperatures of 70 °C or higher.

*2 The number of accesses is the total number of reads and writes.

*3 Oil resistance has been tested using a specific oil as defined in the OMRON test method.

Note: For details, refer to the User's Manual (Cat. No. Z339).

Reader/Writer

Item	Model	V680S-HMD64-ETN	V680S-HMD66-ETN
Dimensions		75W × 75H × 40D (excluding protruding parts)	120W × 120H × 40D (excluding protruding parts)
Power supply voltage		24 VDC (-15% to +10%)	
Consumption current		0.2A max.	
Ambient operating temperature		-10 to +55 °C (with no icing)	
Ambient operating humidity		25% to 85% (with no condensation)	
Ambient storage temperature		-25 to 70 °C (with no icing)	
Ambient storage humidity		25% to 85% (with no condensation)	
Insulation resistance		20 MΩ min. (at 500 VDC) between cable terminals and case	
Dielectric strength		1,000 VAC, 50/60 Hz for 1 min between cable terminals and case	
Vibration resistance		No abnormality after application of 10 to 500 Hz, 1.5-mm double amplitude, acceleration: 100 m/s ² , 10 sweeps in each of 3 axis directions (up/down, left/right, and forward/backward) for 11 minutes each	
Shock resistance		No abnormality after application of 500 m/s ² , 3 times each in 6 directions (Total: 18 times)	
Degree of protection		IP67 (IEC 60529: 2001) Oil resistance equivalent to IP67F (JIS C 0920: 2003, Appendix 1) *1	
Materials		Case: PBT resin, Filled resin: Urethane resin	
Mass		Approx. 270g	Approx. 640g
Installation method		Four M4 screws (Use a screw of 12 mm or more in length.)	
Host device communications interface		Ethernet 10BASE-T/100BASE-TX	
Host device communications protocol		MODBUS TCP	
Accessories		Instruction Sheet, Description of Regulations and Standard, IP address label, Ferrite core *2	

*1 Oil resistance has been tested using a specific oil as defined in the OMRON test method.



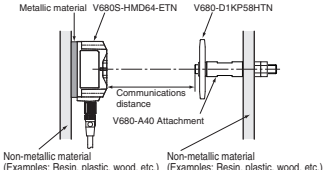

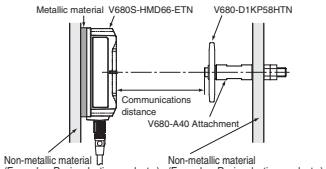
*2 Provided only with the V680S-HMD66-ETN.

Communication Specifications



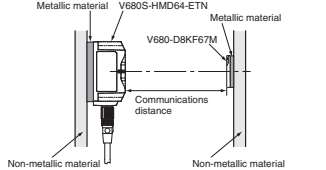

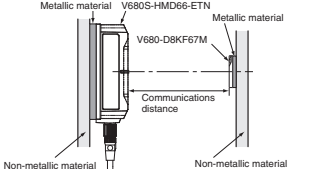


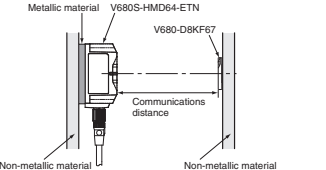

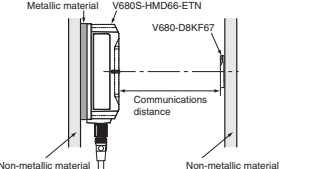


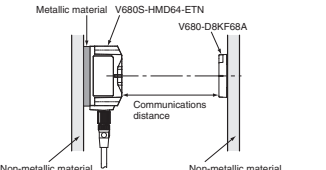

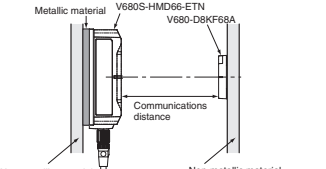
RF Tag (1kbyte Memory) Transmission

Combination		Function	Transmission distance (unit: mm)	RF Tag and Reader/Writer mounting conditions
RF Tag	Reader/Writer			
V680-D1KP54T (mounted to non-metallic material)	V680S-HMD64-ETN	Read distance	0.0 to 33.0 (axial deviation ±10)	
		Write distance	0.0 to 28.0 (axial deviation ±10)	
	V680S-HMD66-ETN	Read distance	0.0 to 45.0 (axial deviation ±10)	
		Write distance	0.0 to 38.0 (axial deviation ±10)	
V680-D1KP66MT (mounted to metallic material)	V680S-HMD64-ETN	Read distance	0.0 to 35.0 (axial deviation ±10)	
		Write distance	0.0 to 30.0 (axial deviation ±10)	
	V680S-HMD66-ETN	Read distance	0.0 to 37.0 (axial deviation ±10)	
		Write distance	0.0 to 30.0 (axial deviation ±10)	
V680-D1KP66T (mounted to non-metallic material)	V680S-HMD64-ETN	Read distance	0.0 to 47.0 (axial deviation ±10)	
		Write distance	0.0 to 42.0 (axial deviation ±10)	
	V680S-HMD66-ETN	Read distance	0.0 to 64.0 (axial deviation ±10)	
		Write distance	0.0 to 57.0 (axial deviation ±10)	
V680-D1KP66T-SP (mounted to non-metallic material)	V680S-HMD64-ETN	Read distance	0.0 to 42.0 (axial deviation ±10)	
		Write distance	0.0 to 37.0 (axial deviation ±10)	
	V680S-HMD66-ETN	Read distance	0.0 to 59.0 (axial deviation ±10)	
		Write distance	0.0 to 52.0 (axial deviation ±10)	

High-temperature RF Tag (1kbyte Memory) Transmission

Combination		Function	Transmission distance (unit: mm)	RF Tag and Reader/Writer mounting conditions
RF Tag	Reader/Writer			
V680-D1KP58HTN (mounted with special attachment) 	V680S-HMD64-ETN 	Read distance	7.5 to 75.0 (axial deviation ±10)	
		Write distance	7.5 to 75.0 (axial deviation ±10)	
	V680S-HMD66-ETN 	Read distance	10.0 to 90.0 (axial deviation ±10)	
		Write distance	10.0 to 80.0 (axial deviation ±10)	

RF Tag (8kbyte Memory) Transmission

Combination		Function	Transmission distance (unit: mm)	RF Tag and Reader/Writer mounting conditions
RF Tag	Reader/Writer			
V680-D8KF67M (mounted to metallic material) 	V680S-HMD64-ETN 	Read distance	3.0 to 40.0 (axial deviation ±10)	
		Write distance	3.0 to 40.0 (axial deviation ±10)	
	V680S-HMD66-ETN 	Read distance	4.0 to 45.0 (axial deviation ±10)	
		Write distance	4.0 to 45.0 (axial deviation ±10)	
V680-D8KF67 (mounted to non-metallic material) 	V680S-HMD64-ETN 	Read distance	5.0 to 50.0 (axial deviation ±10)	
		Write distance	5.0 to 50.0 (axial deviation ±10)	
	V680S-HMD66-ETN 	Read distance	7.0 to 70.0 (axial deviation ±10)	
		Write distance	7.0 to 70.0 (axial deviation ±10)	
V680-D8KP68A (mounted to non-metallic material) 	V680S-HMD64-ETN 	Read distance	7.5 to 75.0 (axial deviation ±10)	
		Write distance	7.5 to 75.0 (axial deviation ±10)	
	V680S-HMD66-ETN 	Read distance	10.0 to 100.0 (axial deviation ±10)	
		Write distance	10.0 to 100.0 (axial deviation ±10)	

Characteristic Data (Typical)

Transmission Range (Typical)

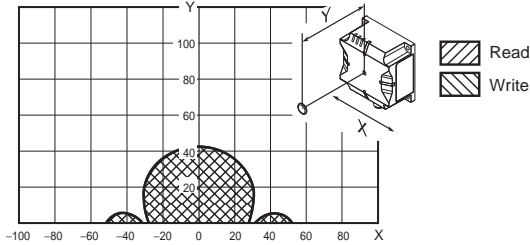
The values given for communications ranges are reference values. Refer to pages 14 to 15 for communications distance specifications. The communications distance will depend on the RF Tags, ambient temperature, surrounding metal, noise, and other factors. Test operation completely when installing a system.

• **V680S-HMD64-ETN**

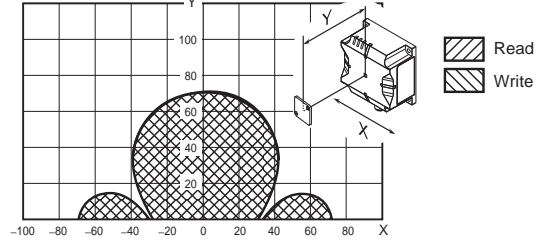
(unit:mm)

1kbyte Memory RF Tag

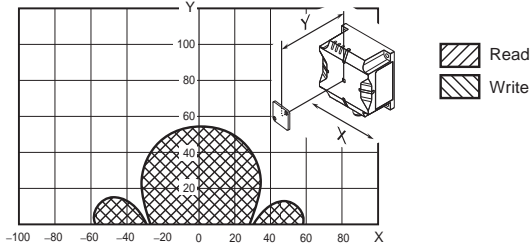
V680S-HMD64-ETN and V680-D1KP54T
(Back Surface: Metal)



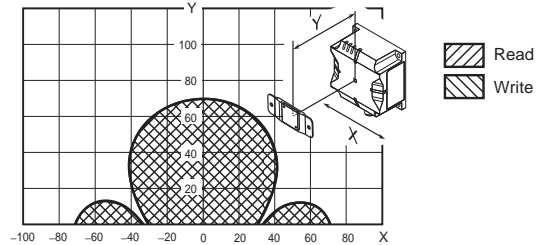
V680S-HMD64-ETN and V680-D1KP66T
(Back Surface: Metal)



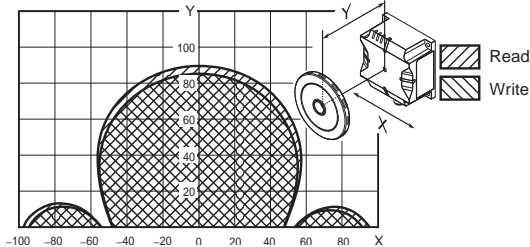
V680S-HMD64-ETN and V680-D1KP66MT
(Back Surface: Metal) (Back Surface: Metal)



V680S-HMD64-ETN and V680-D1KP66T-SP
(Back Surface: Metal)

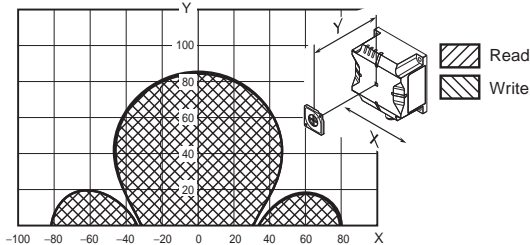


V680S-HMD64-ETN and V680-D1KP58HTN
(Back Surface: Metal) (with Attachment, V680-A80)

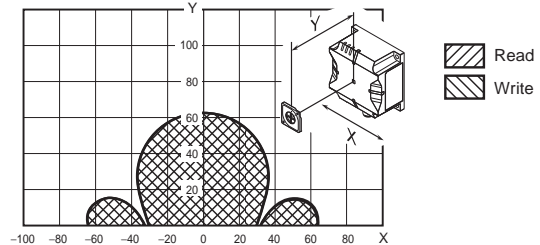


8kbyte Memory RF Tag

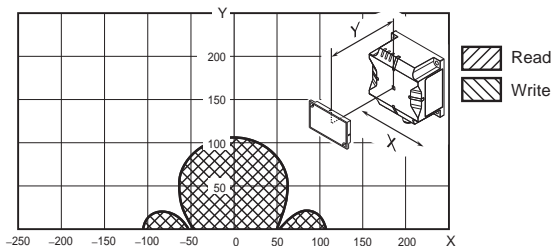
V680S-HMD64-ETN and V680-D8KF67
(Back Surface: Metal)



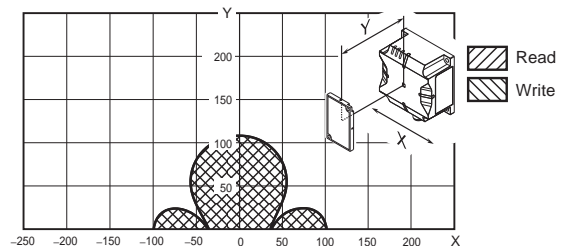
V680S-HMD64-ETN and V680-D8KF67M
(Back Surface: Metal) (Back Surface: Metal)



V680S-HMD64-ETN and V680-D8KF68A
(Back Surface: Metal) (Horizontal-facing RF Tag)



V680S-HMD64-ETN and V680-D8KF68A
(Back Surface: Metal) (Vertical-facing RF Tag)

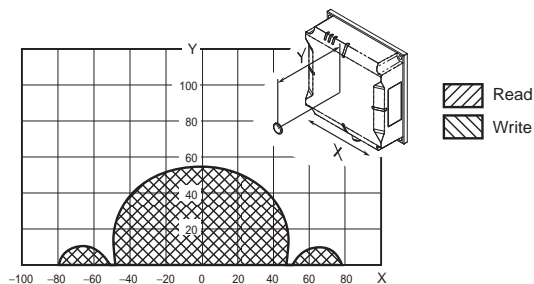


• V680S-HMD66-ETN

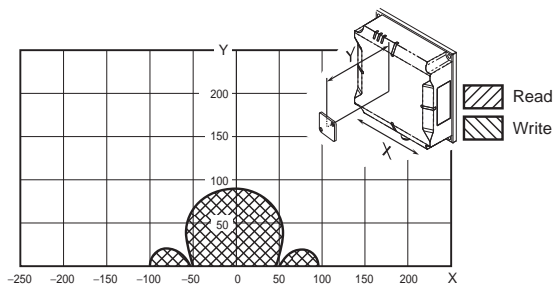
(unit:mm)

1kbyte Memory RF Tag

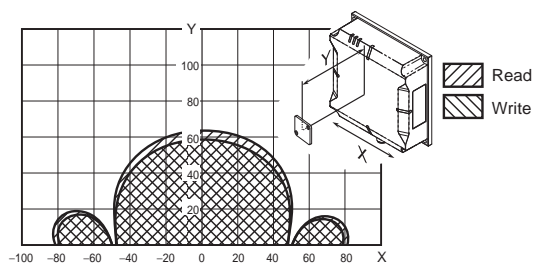
V680S-HMD66-ETN and V680-D1KP54T
(Back Surface: Metal)



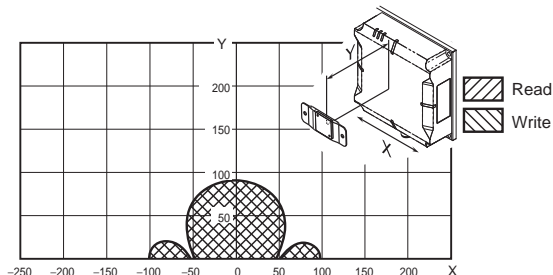
V680S-HMD66-ETN and V680-D1KP66T
(Back Surface: Metal)



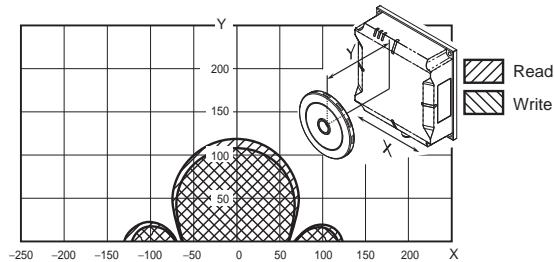
V680S-HMD66-ETN and V680-D1KP66MT
(Back Surface: Metal) (Back Surface: Metal)



V680S-HMD66-ETN and V680-D1KP66T-SP
(Back Surface: Metal)

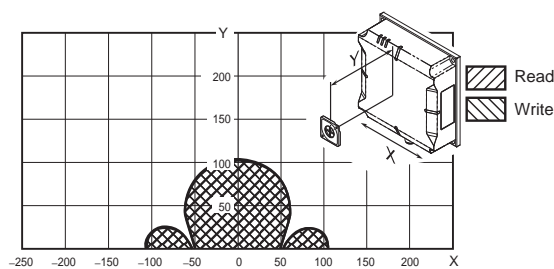


V680S-HMD66-ETN and V680-D1KP58HTN
(Back Surface: Metal) (with Attachment, V680-A80)

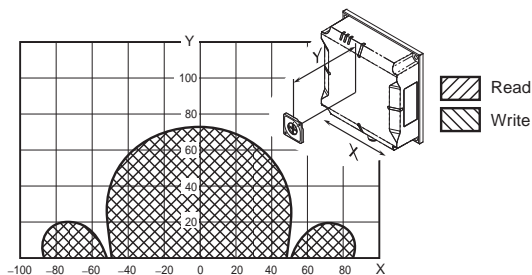


8kbyte Memory RF Tag

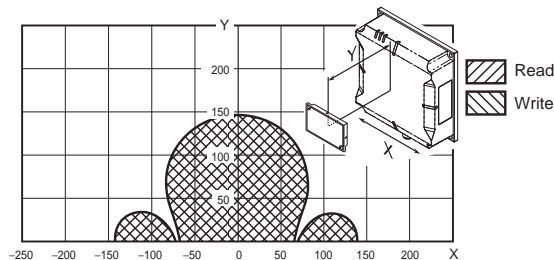
V680S-HMD66-ETN and V680-D8KF67
(Back Surface: Metal)



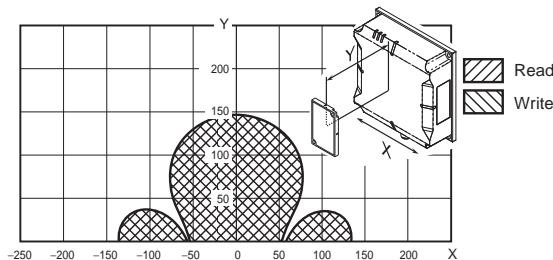
V680S-HMD66-ETN and V680-D8KF67M
(Back Surface: Metal) (Back Surface: Metal)



V680S-HMD66-ETN and V680-D8KF68A
(Back Surface: Metal) (Horizontal-facing RF Tag)



V680S-HMD66-ETN and V680-D8KF68A
(Back Surface: Metal) (Vertical-facing RF Tag)

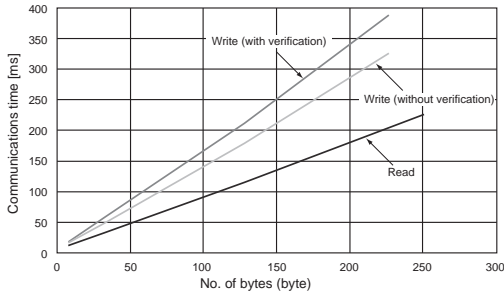


Communications Time

1kbyte Memory RF Tag

V680S-HMD64-ETN/-HMD66-ETN: V680-D1KP□□

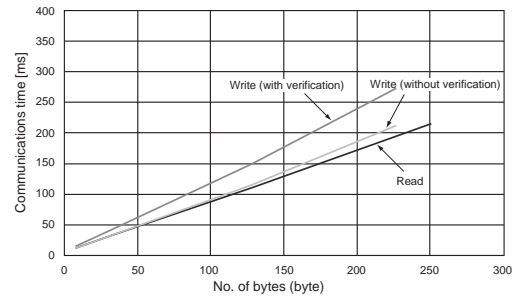
Query	Communications time (ms) N: No. of bytes processed
Read	$T = 0.88 N + 5.01$
Write (with verification)	$T = 1.69 N + 3.01$
Write (without verification)	$T = 1.41 N + 2.98$



8kbyte Memory RF Tag

V680S-HMD64-ETN/-HMD66-ETN: V680-D8KF6□

Query	Communications time (ms) N: No. of bytes processed
Read	$T = 0.84N + 5.05$
Write (with verification)	$T = 1.18N + 3.58$
Write (without verification)	$T = 0.91N + 3.55$



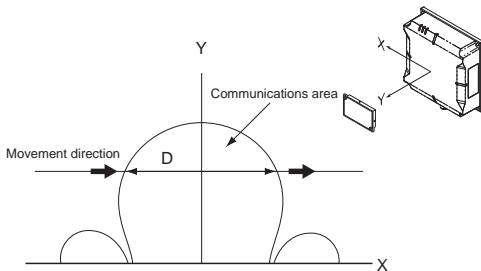
Travel Speed Calculations

When communicating with a moving RF Tag, specify an AUTO mode.

The maximum speed for communicating with the RF Tag can be calculated simply using the following formula.

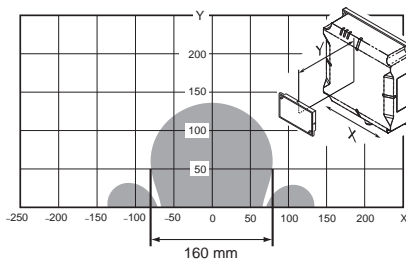
$$\text{Maximum speed} = \frac{D \text{ (Distance travelled in communications area)}}{T \text{ (Communications time)}}$$

D (Distance travelled in communications area) is calculated from the actual measurement or the communications area between the Reader/Writer and RF Tag.



Calculation Example

The following example is for reading 128 bytes with the V680-D8KF68A, and V680S-HMD66-ETN.



From the above chart,

Distance travelled in communications area = 160 mm when Y (communications distance) is 50 mm

Communications time $T = 225.5$ ms (calculated from the communications time, i.e., $1.2 \times 128 \text{ bytes} + 10.46$)

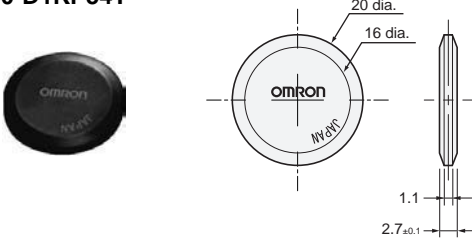
Therefore, the maximum speed of the Tag is as follows:

$$\begin{aligned} \text{Maximum speed} &= \frac{D \text{ (Distance travelled in communications area)}}{T \text{ (Communications time)}} = \frac{160 \text{ (mm)}}{225.5 \text{ (ms)}} \\ &= 42.57 \text{ m/min} \end{aligned}$$

Dimensions

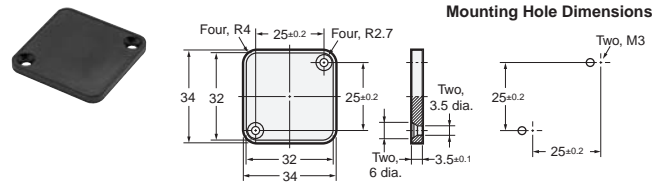
RF Tag

V680-D1KP54T



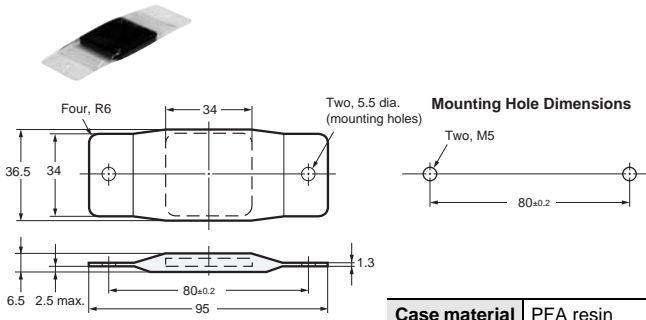
Case material	PPS resin
---------------	-----------

V680-D1KP66T/-D1KP66MT



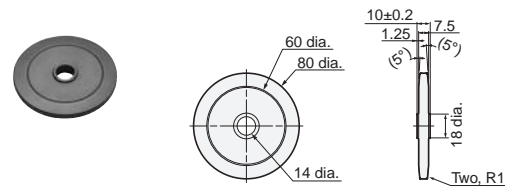
Case material	PPS resin
---------------	-----------

V680-D1KP66T-SP



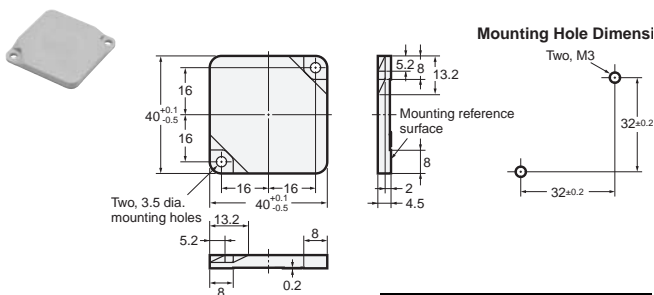
Case material	PFA resin
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V680-D1KP58HTN



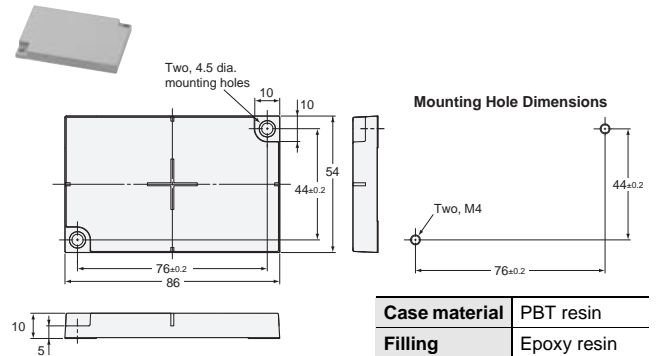
Coating	PPS resin
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V680-D8KF67/-D8KF67M



Case material	PBT resin
Filling	Epoxy resin

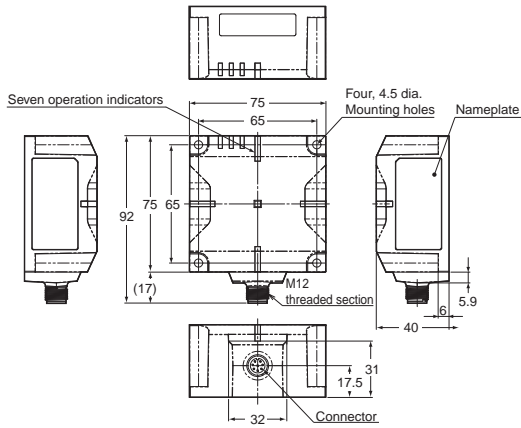
V680-D8KF68A



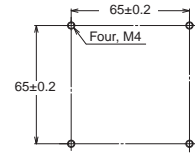
Case material	PBT resin
Filling	Epoxy resin

Reader/Writer

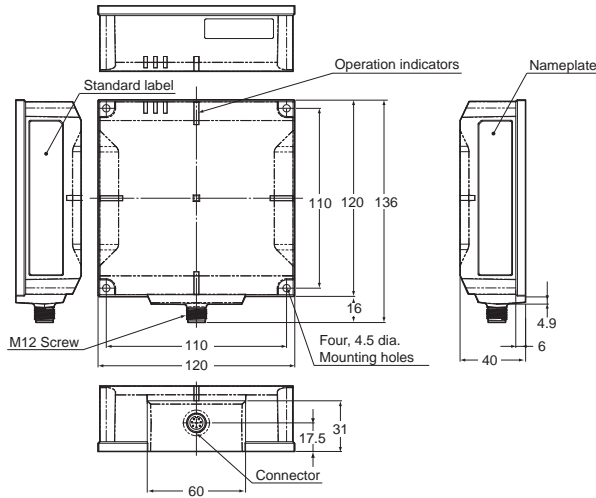
V680S-HMD64-ETN



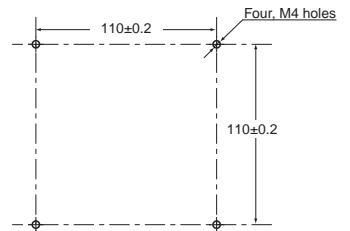
Mounting Hole Dimensions



V680S-HMD66-ETN

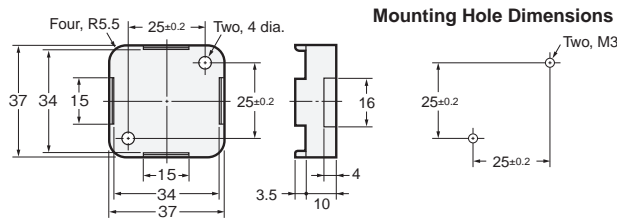


Mounting Hole Dimensions



RF Tag Attachment

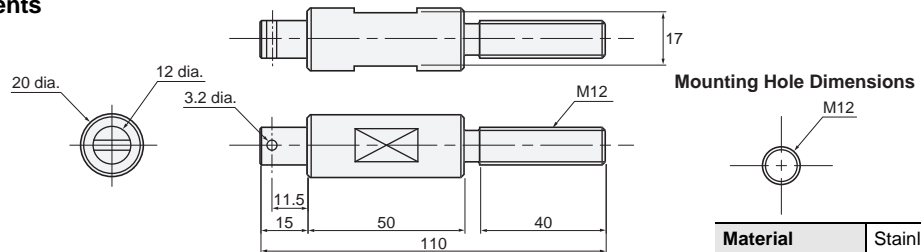
V680-D1KP66T Attachments V600-A86



Mounting Hole Dimensions

Case material	PPS resin
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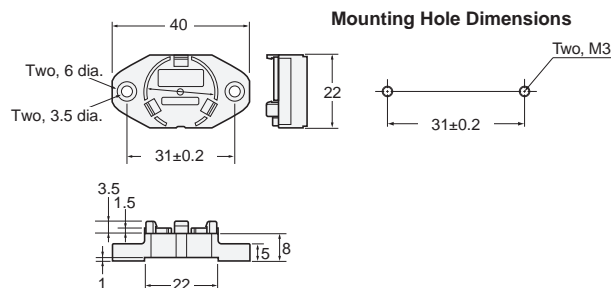
V680-D1KP58HTN Attachments V680-A80



Mounting Hole Dimensions

Material	Stainless steel
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V680-D1KP54T Attachments V700-A80

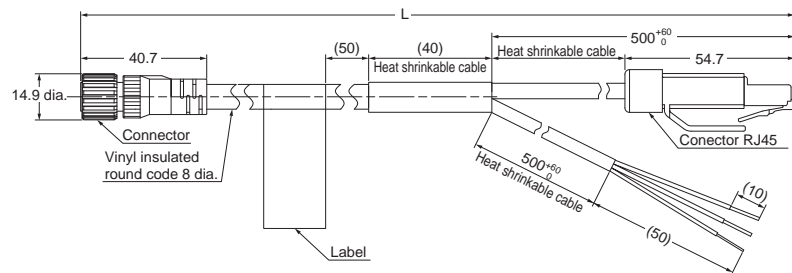


Mounting Hole Dimensions

Material	PPS resin
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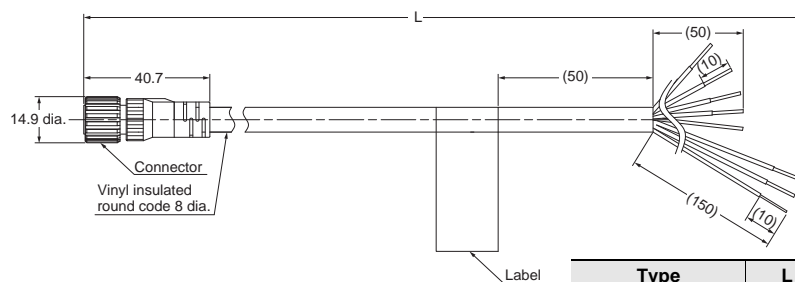
Cable

V680S-A41 □M Special connector – RJ45



Type	L Length
V680S-A41 2M	2000 ⁺¹⁵⁰ ₀
V680S-A41 5M	5000 ⁺³⁰⁰ ₀
V680S-A41 10M	10000 ⁺¹⁰⁰⁰ ₀

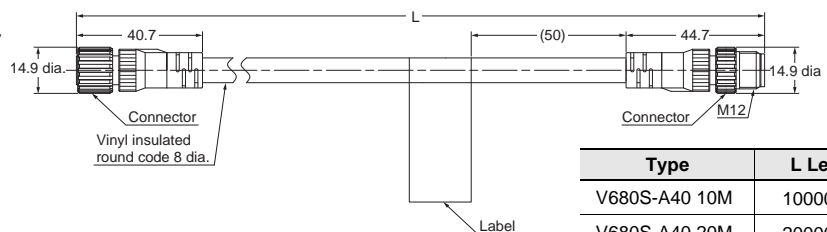
V680S-A42 □M Special connector – Loose wires



Type	L Length
V680S-A42 2M	2000 ⁺¹⁵⁰ ₀
V680S-A42 5M	5000 ⁺³⁰⁰ ₀
V680S-A42 10M	10000 ⁺¹⁰⁰⁰ ₀

Extension Cable

V680S-A40 □M Special connector – Special connector



Type	L Length
V680S-A40 10M	10000 ⁺¹⁰⁰⁰ ₀
V680S-A40 20M	20000 ⁺²⁰⁰⁰ ₀
V680S-A40 50M	50000 ⁺⁵⁰⁰⁰ ₀

Related Manuals

English Man. No.	Japanese Man. No.	Model	Name
Z339	SDGR-709	V680S-HMD□-ETN	RFID system V680S Series User's Manual

Caution for Radio Regulations

As soon as the V680S Series has been certified to comply with Radio Regulations of each country, the product label will be subject to change to include a certificate number without any advance notice. For update on compliance with Radio Regulations, refer to "Models with Standards Certification" on the OMRON website (<http://www.ia.omron.com/>).

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