V600

Non-contact Data Communications System

- New compact, slim Controller with two input channels added to the lineup.
- Superior environmental resistance.
- Heat-resistant Data Carrier available (150°C max.).
- Large memory capacity of 8 kbytes for Built-in-battery Data Carriers and 254 bytes for Battery-less Data Carriers.
- Built-in-battery Data Carriers have a battery life detecting function.
- Data of Battery-less Data Carriers with small memory capacity can be overwritten 300,000 times at normal temperatures.
- Thin, compact, and low-cost Data Carriers are available.
- Transmission distance of 100 mm max.
- CE marking/FCC approvals.



Ordering Information

■ Data Carriers

Item		Mode	el	Specifications/Design/Memory capacity	
Large Memory Capacity	Built-in-battery Data Carriers	V600-D8KR12	*	Rectangular compact 65 × 40 × 15 mm	8 Kbytes
		V600-D8KR13		Thin rectangular 86 × 54 × 10.3 mm	
		V600-D8KR04		Intermediate-range rectangular 86 × 54 × 20 mm	
	Battery-less Data Carriers	V600-D8KF04 <u>NEW</u>		Intermediate-range rectangular 86 × 54 × 20 mm	
	Replaceable-battery Data Carriers	V600-D2KR16		Compact 65 × 40 × 5 mm	2 Kbytes
Small Memory Capacity	Battery-less Data Carriers	V600-D23P71		Ultrathin card-type $86 \times 54 \times 1.5$ mm	254 bytes
		V600-D23P72		Thin half-size card-type $50 \times 34 \times 1.5$ mm	1
		V600-D23P66N		Rectangular 34 × 34 × 3.5 mm	1
		V600-D23P66SP		Rectangular package with PFA $95 \times 36.5 \times 6.5$ mm	
		V600-D23P61		Rectangular compact 32 × 24 × 6 mm	
		V600-D23P53		Round super-compact 8 dia. × 5 mm	
		V600-D23P54		Round compact 12 dia. × 6 mm]
		V600-D23P55		Round super-compact 8 dia. × 5 mm	1

■ R/W Heads

Item	Item		odel	Specifications/Design		
Rectangular type		V600-H07 (0.5 m)		Dimensions: 100 × 100 × 30 mm	0.5-m cable	
		V600-H07 (2 m)			2-m cable	
		V600-H07 (5 m)			5-m cable	
		V600-H07 (10 m)			10-m cable	
		V600-H11 (0.5 m)		Dimensions: 53 × 40 × 23 mm	0.5-m cable	
		V600-H11-R (0.5 m)			0.5-m cable	
		V600-H11 (2 m)			2-m cable	
		V600-H11 (5 m)			5-m cable	
		V600-H11 (10 m)			10-m cable	
Cylinder type		V600-H51 (0.5 m)		Dimensions: 22 dia. × 80 mm	0.5-m cable	
		V600-H51 (2 m)			2-m cable	
		V600-H51 (5 m)			5-m cable	
		V600-H51 (10 m)			10-m cable	
		V600-H52 (0.5 m)		Dimensions: 22 dia. × 85 mm	0.5-m cable	
		V600-H52 (2 m)			2-m cable	
		V600-H52 (5 m)			5-m cable	
		V600-H52 (10 m)			10-m cable	
Separate-amplifier	Amplifier	V600-HA51 (2 m)		$73.8 \times 22.6 \times 36.5$ mm, with 2-m c	able	
type	section	V600-HA51 (5 m)		73.8 × 22.6 × 36.5 mm, with 5-m cable		
				73.8 × 22.6 × 36.5 mm, with 10-m cable		
Sensor section		V600-HS51		12 dia. \times 35 mm deep, with 2-m ca	ble	
				$30.5 \times 18 \times 10$ mm, with a 2-m cable		

■ ID Controllers

Item		Model	Specificat	ions/Design
DC Power Supply	V600-CA5D02 <u>NEW</u>		24 VDC Two R/W Head channels 105 × 90 × 65 mm	Host RS-232C, RS-422, and RS-485 interfaces
	V600-CD1D-V3		24 VDC Single R/W Head connectable 115 × 68 × 80 mm	RS-232C host interface
	V600-CM1D		24-VDC, 5-VDC 2-system input Single R/W Head connectable Board type	
DC Power Supply	V600-IDSC02		24 VDC RS-232C interface	Two R/W Heads connectable
	V600-IDSC04			Four R/W Heads connectable

■ Accessories (Order Separately)

Item	Model		Specifications/Design		
Extension cable for	V600-A45		Standard cable	3-m cable	
R/W Heads	V600-A44		Non-water-resistant connectors	5-m cable	
	V600-A40			10-m cable	
	V600-A41			20-m cable	
	V600-A42			30-m cable	
	V600-A56		Robotic cable	3-m cable	
	V600-A55		Non-water-resistant connectors	5-m cable	
	V600-A50			10-m cable	
	V600-A51			20-m cable	
	V600-A52			30-m cable	
Holder	V600-A81		For the V600-D2KR16 *Mount with M3 flat countersunk he	ead screws (at least two).	
	V600-A84		For the V600-D23P71/D23P72 Ultrasonic deposition can be used on the plastic container.		
			omasonic deposition can be used	on the plastic container.	
Attachment	V600-A86		For the V600-D23P66N		

■ RS-232C Cables (Order Separately)

Model	Cable length	Compatible ID Controlle	ers
XW2Z-200S	2 m	V600-CD1D-V3	
XW2Z-500S	5 m	V600-CM1D	

■ Connectors for ID Controllers (One Set per Unit)

Model	Name	Compatible ID Controllers
XM2A-0901	Connector Plug	V600-CD1D-V3 V600-CM1D
XM2S-0911	Connector Hood	
	RS-422/ RS-485 communica- tions connector	V600-CA5D02

■ Battery-less Data Carriers with Small Memory Capacity

	Shape	Ultrathin Card-type	Ultrathin Half-size Card-type	Rectangular Compact	Chemical- resistant	Rectangular Compact	Round Super- compact	Round Compact	Round Super- compact
	Model	V600- D23P71	V600- D23P72	V600- D23P66N	V600- D23P66SP	V600- D23P61	V600- D23P53	V600- D23P54	V600- D23P55
Item							Ü		
Memory capac	city	254 bytes							
Memory type		EEPROM (non-volatile memory)							
Transmission	distance	Refer to "Trans page 10.	smission Dista	•	•	r-less Data Carr	iers with Smal	l Memory Capa	acity" on
Data retention (after writing o		10 years		10 years (-40 to 110°C) 1 year (-40 to 150°C)	10 years				10 years (-40 to 110°C) 1 year (-40 to 150°C)
Number of	Up to 0°C	800,000 times							
overwrites (per address) (Refer to	Up to 25°C	400,000 times							
separate item for	Up to 60°C	300,000 times							
ambient temperature)	Up to 85°C	100,000 times							
Transmission detection	error	16-bit CRC in	both direction	s (CRC: Cyclic	Redundancy C	Check)			
Ambient temperature	For data storage	–20 to 110°C		-40 to 150°C (See note.)	–40 to 110°C	–40 to 85°C			-40 to 150°C (See note.)
	For reading/ writing	−10 to 70°C		–20 to 85°C	–20 to 70°C	–25 to 70°C			–25 to 85°C
Storage tempe	erature	–20 to 110°C		-40 to 150°C (See note.)	–40 to 110°C	–40 to 85°C			-40 to 150°C (See note.)
Ambient humi	dity	Operating: 359	% to 95%						
Degree of prof	tection	IEC 60529: IP	67	IEC 60529: IP68	IEC 60529: IP67	IEC 60529: IP	67		IEC 60529: IP67
Vibration resistance (destruction) 10 to 2,000 Hz, 3.0-mm double amplitude, 300 m/s² acceleration for 30 min each in 3 directions (90 min total) 10 to 2,000 Hz, 3.0-mm double amplitude, 300 m/s² acceleration for 30 min each in 3 directions (90 min total) 10 to 2,000 Hz, 3.0-mm double amplitude, 300 m/s² acceleration for 30 min each in 3 directions (90 min total) 10 to 2,000 Hz, 3.0-mm double amplitude, 300 m/s² acceleration for 30 min each in 3 directions (90 min total) 10 to 2,000 Hz, 3.0-mm double amplitude, 300 m/s² acceleration for 30 min each in 3 directions (90 min total)			10 to 2,000 Hz, 1.5-mm double amplitude, 150 m/s² accel- eration 10 times each in 3 directions (15 min)						
Shock resistar (destruction)	1,000 m/s ² 3 times each in 3 directions (18 times total) 1,000 m/s ² 3 times each in 3 directions (18 times total) 1,000 m/s ² 3 times each in 3 directions (18 times total)		times total)	500 m/s ² 3 times each in 3 directions (18 times total)					
Weight		Approx. 15 g	Approx. 5 g	Approx 6.5 g	Approx. 19 g	Approx. 5.8 g	Approx. 0.4 g	Approx. 1.0 g	Approx. 0.6 g

Note: The 150°C heat resistance was confirmed by leaving the Unit at 150°C for 1,000 continuous hours, and by a thermal shock test consisting of 1,000 –10°C/150°C cycles of 30 min each. No defect was found among the 22 test samples.

■ Data Carriers with Large Memory Capacity

Shape			Built-in-battery	Battery-less	Replaceable-battery		
		Rectangular Compact	Rectangular Thin	Rectangular Intermediate Range	Rectangular Intermediate Range	Rectangular Compact with Replaceable Battery	
	Model	V600-D8KR12	V600-D8KR13	V600-D8KR04	V600-D8KF04	V600-D2KR16	
Item							
Memory capa	city	8 KB			•	2 KB	
Memory type		SRAM (volatile memory	/)		FeRAM (nonvolatile memory)	SRAM (volatile memory)	
Transmission	distance	Refer to "Transmission less/Replaceable-batte		for Data Carriers with La	arge Memory Capacity (Built-in-battery/Battery-	
Battery life (S	ee note	Refer to "Battery Life" o	n page 22		(See note 4.)	2 years (at 25°C) (See note 2.)	
Number of rea	ads/writes	Unlimited	Unlimited (Does not affect battery life)				
Transmission error detection		16-bit CRC in both directions (CRC: Cyclic Redundancy Check)					
	For data storage	–40 to 70°C				–15 to 70°C	
	For reading/ writing	–25 to 70°C				0 to 50°C	
Storage temp	erature	–40 to 70°C	–15 to 70°C				
Ambient hum	idity	35% to 95%	35% to 85%				
Storage humi	dity	35% to 95%					
Degree of pro	tection	IEC 60529: IP67				IEC 60529: IP50 (dust- proof) (See note 3.)	
Vibration resistance (destruction)		10 to 500 Hz, 1.0-mm s X, Y, and Z directions	10 to 150 Hz, 0.75-mm single amplitude, 100- m/s² acceleration for 30 min each in X, Y, and Z directions				
Shock resistance (destruction)		in X, Y, and Z direc-			300 m/s ² 3 times each in X, Y, and Z direc- tions (18 times total)		
Weight		Approx. 70 g		Approx. 160 g	Approx. 150 g	Approx. 15 g	

Note: 1. A low battery detection function is built-in.

- 3. The Data Carrier is dustproof when the provided battery replacement cover seal is used.
- 4. Data holding time: 10 years

^{2.} The battery life is applicable for batteries used at a temperature of 25°C. Refer to "Temperature and Battery Life" on page 22 for details on the relationship between temperature and battery life. The lithium battery is commercially available (CR2016).

■ Read/Write (R/W) Heads with Built-in Amplifier

Model	V600-H07	V600-H11/H11-R	V600-H51	V600-H52	
Item					
Oscillation frequency	530 kHz				
Ambient temperature	–25 to 70°C	–10 to 60°C			
Storage temperature	–40 to 85°C	–25 to 75°C			
Ambient humidity	35% to 95%				
Storage humidity	35% to 95%				
Insulation resistance	50 M Ω min. (at 500 VDC) be	etween cable terminals and ca	ase		
Dielectric strength	1,000 VAC, 50/60 Hz for 1 m	nin between cable terminals a	nd case (Leakage current: 1	mA max.)	
Degree of protection	IEC 60529: IP67				
Vibration resistance (destruction)	10 to 500 Hz, 1.0-mm single	amplitude, 150 m/s ² accelera	tion with 3 sweeps of 11 min	each in X, Y, and Z directions	
Shock resistance	Destruction: 500 m/s ² 3 time	es each in X, Y, and Z directio	ns (18 times total)		
Cable length (See note 1.)	Standard lengths of 0.5 m, 2 m, 5 m, and 10 m.				
Wireless transmission error detection	16-bit CRC in both directions (CRC: Cyclic Redundancy Check)				
Indicators	Power: green; transmission: orange				
Weight	Approx. 1 kg (with 10-m cable)	Approx. 650 g (with 10-m ca	ble)		

Note: 1. Extension cables are also available. The maximum cable length is 30.5 m for the V600-H07 and 50.5 m for the V600-H11/H51/H52.

^{2.} The connectors are not water-resistant.

■ Read/Write (R/W) Heads with Separate Amplifier

Model		Sensor	section	,	Amplifier section	
		V600-HS51	V600-HS61		V600-HA51	
Item						
Oscillation fre	equency	530 kHz			•	
Ambient temp	perature	–10 to 60°C				
Storage temp	erature	–25 to 75°C				
Ambient hum	idity	35% to 95%				
Insulation res	istance	50 M Ω min. (at 500 VDC) be	etween cable terminals and c	ase		
Dielectric stre	ength	1,000 VAC 50/60 Hz for 1 m	in between cable terminals a	nd case (Leakage cu	ırrent: 1 mA max.)	
Degree of pro	tection	IEC 60529: IP67		IEC 60529: IP66		
Vibration resi (destruction)	stance	10 to 2,000 Hz, 1.5-mm single amplitude, 300 m/s² acceleration with 2 sweeps of 15 min each in 3 directions		Installed in panel	10 to 2,000 Hz, 1.5-mm single amplitude, 300-m/s ² acceleration with 2 sweeps of 11 min each in 3 directions	
				DIN Track installation	10 to 500 Hz, 1.0-mm single amplitude, 150-m/s² acceleration with 3 sweeps of 11 min each in 3 directions	
Shock resista (destruction)	nce	1,000 m/s ² 3 times each in 3	directions (18 times total)	500 m/s ² 3 times each in 3 directions (18 times total)		
Cable length	Sensor to amplifier	2 m (fixed)				
	Amplifier to controller	Standard lengths of 2 m, 5		2 m, 5 m, and 10 m (See note 1.)		
Wireless transmission 16-bit CRC in both directions (CRC: Cyclic Redundancy Check) error detection			Check)			
Indicators				Power: green; transmission: orange		
Weight		Approx. 70 g (with 2-m cable	e)	Approx. 650 g (with	10-m cable)	

Note: 1. Extension cables are also available. The maximum cable length is 50 m for the V600-HA51. Extension cables are not available for the V600-HS51/HS61.

^{2.} The connectors are not water-resistant.

■ ID Controllers

	Series		V600 Series			
	Model	V600-CA5D02	V600-CD1D-V3	V600-CM1D		
ltem						
Host interfac	<u> </u>	RS-232C, RS-422, RS-485	RS-232C	•~		
Possible nur		2	1			
Heads	IIDEI OI N/VV	2				
Power suppl	y voltage	24 VDC	24 VDC	24 VDC, 5 VDC		
Acceptable p	ower supply	20.4 to 26.4 VDC	20.4 to 26.4 VDC	20.4 to 26.4 VDC 4.5 to 5.5 VDC		
Power consu	umption	15 W max.	7.2 W max.	24 VDC: 7.2 W max. 5 VDC: 1.5 W max.		
Insulation re	sistance	$50~\text{M}\Omega$ min. (at 500 VDC) between pow supply terminals and I/O terminals	ver terminals and case, between I/O term	minals and case, or between the power		
Dielectric strength		1,000 VAC, 50/60 Hz for 1 min between the points listed above; Leakage current: 10 mA max.	1,000 VAC, 50/60 Hz for 1 min between the points listed above; Leakage current: 10 mA max.			
Noise immu	nity	1,500-V (p-p) pulses of 100-ns to 1-μs pulse width with a 1-ns rise time				
Vibration resistance	Destruction		10 to 150 Hz, 0.3-mm double amplitude tions	de for 32 min each in X, Y, and Z direc-		
	Malfunction	10 to 150 Hz, 0.2-mm double amplitude, 15 m/s² acceleration 10 times for 8 min each in 3 directions	10 to 150 Hz, 0.2-mm double amplitude tions	de for 32 min each in X, Y, and Z direc-		
Shock	Destruction		Destruction: 200 m/s ² 3 times each in	X, Y, and Z directions (18 times total)		
resistance	Malfunction	150 m/s ² 3 times each in X, Y, and Z directions (18 times total)				
Ambient tem	perature	−10 to 55°C		0 to 50°C		
Ambient hur	nidity	35% to 85% (with no condensation)				
Operating co	onditions	No corrosive gases				
Storage tem	perature	−25 to 65°C		−15 to 70°C		
Memory back-up		A capacitor backs up the most recent error data and statistical error data for up to 20 days (at 25°C) after a power interruption.	ror data and statistical error data for personal computer when the power is turned ON. to 20 days (at 25°C) after a power			
Diagnostic for	unctions	Checks for CPU errors, memory errors	s, power interruptions, and transmission	n errors		
Ground		Ground to 100 Ω or less.				
Degree of pr	otection	IEC 60529: IP30 (panel mounted)				
Weight		Approx. 300 g	Approx 360 g	Approx. 180 g		

■ V600-IDSC

Series	V600-IDS	SC Series		
Model	V600-IDSC02	V600-IDSC04		
Item				
Host interface	RS-232C			
Possible number of R/W Heads	2	4		
Power supply voltage	24 VDC			
Acceptable power supply voltage	19.2 to 28.8 VDC			
Power consumption	50 W max.			
Insulation resistance	20 M Ω min. (at 500 VDC) between power supply te	rminals and frame ground terminals		
Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between power supprected current of 10 mA max.	ly terminals and frame ground terminals with a de-		
Vibration resistance	10 to 50 Hz, 0.075-mm amplitude, 57 to 150 Hz, 9.8 directions	m/s² acceleration for 10 sweeps each in X, Y, and Z		
Shock resistance	147 m/s ² 3 times each in X, Y, and Z directions			
Ambient temperature	0 to 55°C (with no icing)			
Ambient humidity	10% to 90% (with no condensation)			
Storage temperature	-20 to 75°C (with no icing)			
Storage humidity	10% to 90% (with no condensation)			
Ground	Ground to 100 Ω or less.	Ground to 100 Ω or less.		
Construction	Installed in panel	Installed in panel		
Weight	Approx. 700 g	Approx. 800 g		

■ Transmission Distance Specifications for Battery-less Data Carriers with Small Memory Capacity

Recommended combinations		Installation		Controller	Transmission	Condition for DC and R/W head
Data Carrier	R/W Head			mode	distance	installation
V600-D23P71	V600-H07	Stationary	Read distance Write distance	Irrelevant	10 to 70 mm (max. axial offset ±10 mm)	These Data Carriers are for installation on non-metallic surfaces only. V600-D23P71/72 RW, Head Data Carrier
		Moving	Read dis- tance		30 to 60 mm (max. axial offset ±10 mm)	
			Write dis- tance			Iron Non-metallic
	V600-H11/-H11-R	Stationary	Read dis- tance	Irrelevant	5 to 40 mm (max. axial offset ±10 mm)	Data transmission will be impossible if the DC is installed directly on
			Write dis- tance			a metal surface. Refer to the V600 R/W Heads and EEPROM Data
		Moving	Read dis- tance		15 to 40 mm (max. axial offset ±10 mm)	Carriers Operation Manual (Cat. No. Z128) for details.
			Write dis- tance			
V600-D23P72	V600-H07	Stationary	Read dis- tance	Irrelevant	10 to 50 mm (max. axial offset ±10 mm)	
			Write dis- tance			
		Moving	Read dis- tance		30 to 40 mm (max. axial offset ±10 mm)	
			Write dis- tance			
	V600-H11/-H11-R	Stationary	Read dis- tance	Irrelevant	5 to 30 mm (max. axial offset ±10 mm)	
			Write dis- tance			
		Moving	Read dis- tance		15 to 30 mm (max. axial offset ±10 mm)	
			Write dis- tance			

Note: 1. The transmission distance/transmission time priority mode setting can be made using the lower-level transmission mode setting switch or memory switch only with a Serial-interface Controller or ID Sensor Unit.

- 2. With Parallel-interface Controllers, the mode setting is always transmission distance priority.
- 3. The specifications take fluctuations in ambient temperature and slight differences between products into account.

Recommend	led combinations	Inst	allation	Controller	Transmission	Condition for DC and R/W head
Data Carrier	R/W Head			mode	distance	installation
V600-D23P66N	V600-H07	Stationary	Read dis- tance	Transmission distance priority	5 to 45 mm (max. axial offset ±10 mm)	R/W Head Data Carrier
				Transmission time priority	5 to 35 mm (max. axial offset ±10 mm)	
			Write dis- tance	Irrelevant	5 to 35 mm (max. axial offset ±10 mm)	Iron Non-metallic (Resin, plastic, wood, etc.)
		Moving	Read dis- tance	Transmission distance priority	25 to 40 mm (max. axial offset ±10 mm)	Data transmission will be impossi-
				Transmission time priority	25 to 30 mm (max. axial offset ±10 mm)	ble if the DC is installed directly on a metal surface. Refer to the V600 R/W Heads and EEPROM Data
			Write dis- tance	Irrelevant	25 to 30 mm (max. axial offset ±10 mm)	Carriers Operation Manual (Cat. No. Z128) for details.
	V600-H11/-H11-R	Stationary	Read dis- tance	Transmission distance priority	5 to 30 mm (max. axial offset ±10 mm)	5, 2
				Transmission time priority	5 to 25 mm (max. axial offset ±10 mm)	
			Write dis- tance	Irrelevant	5 to 25 mm (max. axial offset ±10 mm)	
		Moving	Read dis- tance	Transmission distance priority	15 to 25 mm (max. axial offset ±10 mm)	
				Transmission time priority	15 to 20 mm (max. axial offset ±10 mm)	
			Write dis- tance	Irrelevant	15 to 20 mm (max. axial offset ±10 mm)	
V600- D23P66SP	V600-H07	Stationary	Read dis- tance	Transmission distance priority	5 to 40 mm (max. axial offset ±10 mm)	
				Transmission time priority	5 to 30 mm (max. axial offset ±10 mm)	
			Write dis- tance	Irrelevant	5 to 30 mm (max. axial offset ±10 mm)	
		Moving	Read dis- tance	Transmission distance priority	20 to 40 mm (max. axial offset ±10 mm)	
				Transmission time priority	20 to 30 mm (max. axial offset ±10 mm)	
			Write dis- tance	Irrelevant	20 to 30 mm (max. axial offset ±10 mm)	
	V600-H11/-H11-R	Stationary	Read dis- tance	Transmission distance priority	5 to 25 mm (max. axial offset ±10 mm)	
				Transmission time priority	5 to 20 mm (max. axial offset ±10 mm)	
			Write dis- tance	Irrelevant	5 to 20 mm (max. axial offset ±10 mm)	
		Moving	Read dis- tance	Transmission distance priority	10 to 25 mm (max. axial offset ±10 mm)	
				Transmission time priority	10 to 20 mm (max. axial offset ±10 mm)	
			Write dis- tance	Irrelevant	10 to 20 mm (max. axial offset ±10 mm)	

Note: 1. The transmission distance/transmission time priority mode setting can be made using the lower-level transmission mode setting switch or memory switch only with a Serial-interface Controller or ID Sensor Unit.

- 2. With Parallel-interface Controllers, the mode setting is always transmission distance priority.
- 3. The specifications take fluctuations in ambient temperature and slight differences between products into account.

Recommend	ded combinations	Installation		Controller	Transmission	Condition for DC and R/W head
Data Carrier	R/W Head			mode	distance	installation
V600-D23P61	V600-H11/-H11-R	Stationary	Read dis- tance	Transmission distance priority	2 to 19 mm (max. axial offset ±10 mm)	These Data Carriers can be installed on metallic surfaces.
				Transmission time priority	2 to 16 mm (max. axial offset ±10 mm)	V600-D23P61 Data Carrier
			Write dis- tance	Irrelevant	2 to 16 mm (max. axial offset ±10 mm)	V600-H51 R/W Head
		Moving	Read dis- tance	Transmission distance priority	12 to 19 mm (max. axial offset ±10 mm)	NW Head
				Transmission time priority	12 to 16 mm (max. axial offset ±10 mm)	Iron Iron (SC, SS)
			Write dis- tance	Irrelevant	12 to 16 mm (max. axial offset ±10 mm)	RW Head Data Carrier
	V600-H51	Stationary	Read dis- tance	Transmission distance priority	1 to 16 mm (max. axial offset ±10 mm)	Iron
				Transmission time priority	1 to 14 mm (max. axial offset ±10 mm)	Iron (SC, SS)
			Write dis- tance	Irrelevant	1 to 14 mm (max. axial offset ±10 mm)	The listed transmission distances also apply for installation on non-
		Moving	Read dis- tance	Transmission distance priority	7 to 16 mm (max. axial offset ±10 mm)	metallic surfaces. Refer to the V600 R/W Heads and EEPROM Data Carriers Operation Manual (Cat.
				Transmission time priority	7 to 14 mm (max. axial offset ±10 mm)	No. Z128) for details.
			Write dis- tance	Irrelevant	7 to 14 mm (max. axial offset ±10 mm)	

Note: 1. The transmission distance/transmission time priority mode setting can be made using the lower-level transmission mode setting switch or memory switch only with a Serial-interface Controller or ID Sensor Unit.

- 2. With Parallel-interface Controllers, the mode setting is always transmission distance priority.
- 3. The specifications take fluctuations in ambient temperature and slight differences between products into account.

Recommend	ded combinations	Inst	allation	Controller mode		nission ance	Condition for DC and R/W head installation
Data Carrier	R/W Head			mode	uist	ance	IIIStaliation
V600-D23P53	V600-HS51 (See note 4.)	Stationary	Read dis- tance	Transmission distance priority	0.5 to 4.0 mm (max. axial offset ±2 mm)	0.5 to 4.5 mm (max. axial offset ±1 mm)	These Data Carriers are for flush mounting in metallic bases only. V600-D23P53/54
				Transmission time priority	0.5 to 3.0 mm (max. axial offset ±2 mm)	0.5 to 3.5 mm (max. axial offset ±1 mm)	V600-HS61 Data Carrier R/W Head
			Write dis- tance	Irrelevant	0.5 to 3.0 mm (max. axial offset ±2 mm)	0.5 to 3.5 mm (max. axial offset ±1 mm)	Iron
	V600-HS61 (See note 4.)	Stationary	Read dis- tance	Transmission distance priority	0.5 to 4.0 mm (max. axial offset ±2 mm)	0.5 to 4.5 mm (max. axial offset ±1 mm)	//////////////////////////////////////
				Transmission time priority	0.5 to 3.0 mm (max. axial offset ±2 mm)	0.5 to 3.5 mm (max. axial offset ±1 mm)	V600-HS51 R/W Head
			Write dis- tance	Irrelevant	0.5 to 3.0 mm (max. axial offset ±2 mm)	0.5 to 3.5 mm (max. axial offset ±1 mm)	Iron Iron(SC, SS)
	V600-H52	Stationary	Read dis- tance	Transmission distance priority	0.5 to 4.0 mm (max. axial offset ±2 mm)	0.5 to 4.5 mm (max. axial offset ±1 mm)	V600-D23P53/54 Data Carrier
				Transmission time priority	0.5 to 3.0 mm (max. axial offset ±2 mm)	0.5 to 3.5 mm (max. axial offset ±1 mm)	V600-H52 R/W Head
			Write dis- tance	Irrelevant	0.5 to 3.0 mm (max. axial offset ±2 mm)	0.5 to 3.5 mm (max. axial offset ±1 mm)	Iron Iron(SC, SS) The listed transmission distances also apply for installation on non-
V600-D23P54	V600-HS51 (See note 4.)	Stationary	Read dis- tance	Transmission distance priority	0.5 to 6.0 mm (max. axial offset ±2 mm)	0.5 to 6.5 mm (max. axial offset ±1 mm)	metallic surfaces. Refer to the V600 R/W Heads and EEPROM Data Carriers Operation Manual (Cat.
				Transmission time priority	0.5 to 5.5 mm (max. axial offset ±2 mm)	0.5 to 6.0 mm (max. axial offset ±1 mm)	No. Z128) for details.
			Write dis- tance	Irrelevant	0.5 to 5.0 mm (max. axial offset ±2 mm)	0.5 to 5.5 mm (max. axial offset ±1 mm)	
	V600-HS61 (See note 4.)	Stationary	Read dis- tance	Transmission distance priority	0.5 to 6.5 mm (max. axial offset ±2 mm)	0.5 to 7.0 mm (max. axial offset ±1 mm)	
				Transmission time priority	0.5 to 5.5 mm (max. axial offset ±2 mm)	0.5 to 6.0 mm (max. axial offset ±1 mm)	
			Write dis- tance	Irrelevant	0.5 to 5.5 mm (max. axial offset ±2 mm)	0.5 to 6.0 mm (max. axial offset ±1 mm)	
	V600-H52	Stationary	Read dis- tance	Transmission distance priority	0.5 to 6.5 mm (max. axial offset ±2 mm)	0.5 to 7.0 mm (max. axial offset ±1 mm)	
				Transmission time priority	0.5 to 5.5 mm (max. axial offset ±2 mm)	0.5 to 6.0 mm (max. axial offset ±1 mm)	
			Write dis- tance	Irrelevant	0.5 to 5.5 mm (max. axial offset ±2 mm)	0.5 to 6.0 mm (max. axial offset ±1 mm)	

Note: 1. The transmission distance/transmission time priority mode setting can be made using the lower-level transmission mode setting switch or memory switch only with a Serial-interface Controller or ID Sensor Unit.

- 2. With Parallel-interface Controllers, the mode setting is always transmission distance priority.
- 3. The specifications take fluctuations in ambient temperature and slight differences between products into account.
- **4.** This is the transmission distance when using the V600-HS□1 and V600-HA51 combination.

Recommend	Recommended combinations		Installation		Transmission	Condition for DC and R/W head
Data Carrier	R/W Head	1		mode	distance	installation
V600-D23P55	V600-HS51 (See note 4.)	Stationary	Read dis- tance	Transmission distance priority	0.5 to 6.5 mm (max. axial offset ±2 mm)	These Data Carriers are for flush mounting in non-metallic bases
				Transmission time priority	0.5 to 6.0 mm (max. axial offset ±2 mm)	only. V600-D23P55
			Write dis- tance	Transmission distance priority	0.5 to 6.5 mm (max. axial offset ±2 mm)	Data Carrier
				Transmission time priority	0.5 to 6.0 mm (max. axial offset ±2 mm)	V600-HS51 R/W Head
	V600-HS61 (See note 4.)	Stationary	Read dis- tance	Transmission distance priority	0.5 to 7.0 mm (max. axial offset ±2 mm)	Iron
				Transmission time priority	0.5 to 6.0 mm (max. axial offset ±2 mm)	Non-metallic (Resin, plastic, wood, etc.)
			Write dis- tance	Transmission distance priority	0.5 to 7.0 mm (max. axial offset ±2 mm)	V600-D23P55 Data Carrier
				Transmission time priority	0.5 to 6.0 mm (max. axial offset ±2 mm)	V600-HS61 R/W Head
	V600-H52	Stationary	Read dis- tance	Transmission distance priority	0.5 to 9.0 mm (max. axial offset ±2 mm)	
				Transmission time priority	0.5 to 8.5 mm (max. axial offset ±2 mm)	Iron
			Write dis- tance	Transmission distance priority	0.5 to 8.5 mm (max. axial offset ±2 mm)	Non-metallic (Resin, plastic, wood, etc.)
				Transmission time priority	0.5 to 8.5 mm (max. axial offset ±2 mm)	V600-D23P55 Data Carrier
						V600-H52 RW Head
						(Resin, plastic, wood, etc.) The transmission distance decreas-
						es considerably when flush mount- ed in non-metallic bases. Refer to the V600 R/W Heads and EEPROM
						Data Carriers Operation Manual (Cat. No. Z128) for details.

Note: 1. The transmission distance/transmission time priority mode setting can be made using the lower-level transmission mode setting switch or memory switch only with a Serial-interface Controller or ID Sensor Unit.

- 2. With Parallel-interface Controllers, the mode setting is always transmission distance priority.
- 3. The specifications take fluctuations in ambient temperature and slight differences between products into account.
- 4. This is the transmission distance when using the V600-HS \square 1 and V600-HA51 combination.

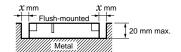
■ Transmission Distance Specifications for Data Carriers with Large Memory Capacity (Built-in-battery/Battery-less/Replaceable-battery)

Recommend	led combinations	Installation		Controller	Transmission	Condition for DC and R/W head
Data Carrier	R/W Head			mode	distance	installation
V600-D8KR12	V600-H07	Stationary	Flush-mount- ed in metal	Irrelevant	10 to 50 mm (max. axial offset ±10 mm)	R/W Head
			Surface- mounted on metal		10 to 60 mm (max. axial offset ±10 mm)	Metal ////////////////////////////////////
		Moving	Flush-mount- ed in metal		25 to 50 mm (max. axial offset ±10 mm)	Data Carrier
			Surface- mounted on metal		25 to 60 mm (max. axial offset ±10 mm)	Surface-mounted on metal /
	V600-H11	Stationary	Flush-mount- ed in metal	Irrelevant	5 to 40 mm (max. axial offset ±10 mm)	
			Surface- mounted on metal		5 to 45 mm (max. axial offset ±10 mm)	Data Carrier Flush-mounted in metal
		Moving	Flush-mount- ed in metal		25 to 40 mm (max. axial offset ±10 mm)	Metal Metal
			Surface- mounted on metal		25 to 45 mm (max. axial offset ±10 mm)	The listed transmission distances also apply for installation on non-metallic surfaces. Refer to the <i>V600</i>
V600-D8KR13	V600-H07	Stationary	Flush-mount- ed in metal	Irrelevant	10 to 30 mm (max. axial offset ±10 mm)	R/W Heads and SRAM Data Carriers Operation Manual (Cat. No.
			Surface- mounted on metal		10 to 35 mm (max. axial offset ±10 mm)	Z127) for details.
		Moving	Flush-mount- ed in metal		20 to 30 mm (max. axial offset ±10 mm)	
			Surface- mounted on metal		20 to 35 mm (max. axial offset ±10 mm)	
	V600-H11	Stationary	Flush-mount- ed in metal	Irrelevant	10 to 30 mm (max. axial offset ±10 mm)	
			Surface- mounted on metal			
		Moving	Flush-mount- ed in metal		15 to 30 mm (max. axial offset ±10 mm)	
			Surface- mounted on metal			

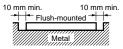
Recommend	led combinations	Inst	allation	Controller	Transmission	Condition for DC and R/W head
Data Carrier	R/W Head			mode	distance	installation
V600-D8KR04 (unsealed)	V600-H07	Stationary	Flush-mount- ed in metal Surface- mounted on	Irrelevant	See note1. 10 to 100 mm (max. axial offset ±10 mm)	The listed transmission distances also apply for installation on non-metallic surfaces. Refer to the V600 R/W Heads and SRAM Data Carriers Operation Manual (Cat. No.
		Moving	metal Flush-mount- ed in metal		See note1.	Z127) for details.
			Surface- mounted on metal		50 to 100 mm (max. axial offset ±10 mm)	
	V600-H11	Stationary	Flush-mount- ed in metal	Irrelevant	See note1.	
			Surface- mounted on metal		10 to 65 mm (max. axial offset ±10 mm)	
		Moving	Flush-mount- ed in metal		See note1.	
			Surface- mounted on metal		30 to 65 mm (max. axial offset ±10 mm)	
V600-D8KF04	V600-H07	Stationary	Flush-mount- ed in metal	Irrelevant	See note1.	
			Surface- mounted on metal		10 to 50 mm (max. axial offset ±10 mm)	
		Moving	Flush-mount- ed in metal		See note1.	
			Surface- mounted on metal		25 to 50 mm (max. axial offset ±10 mm)	
	V600-H11	Stationary	Flush-mount- ed in metal	Irrelevant	See note1.	
			Surface- mounted on metal		10 to 32 mm (max. axial offset ±10 mm)	
		Moving	Flush-mount- ed in metal		See note1.	
			Surface- mounted on metal		15 to 32 mm (max. axial offset ±10 mm)	
V600-D2KR16	V600-H11	Stationary	Flush-mount- ed in metal	Irrelevant	2 to 15 mm (max. axial offset ±10 mm) (See note 2.)	
			Surface- mounted on metal		2 to 15 mm (max. axial offset ±10 mm)	
		Moving	Flush-mount- ed in metal		6 to 15 mm (max. axial offset ±10 mm) (See note 2.)	
			Surface- mounted on metal		10 to 15 mm (max. axial offset ±10 mm)	

Note: 1. When Data Carriers are flush-mounted in metal, the read/write distance will depend on the distance (x) between the side of the DC and the metal surface.

Refer to the V600 R/W Heads and SRAM Data Carriers Operation Manual (Cat. No. Z127) for details.

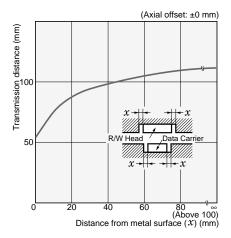


2. Use the following method for flush mounting into a metallic base.

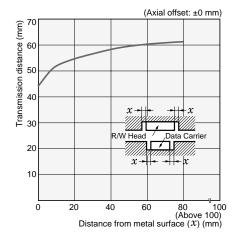


■ Influence of Surrounding Metal

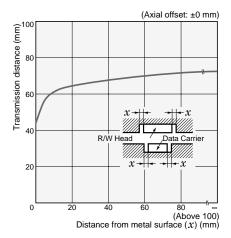
V600-D8KR04 Combined with V600-H07



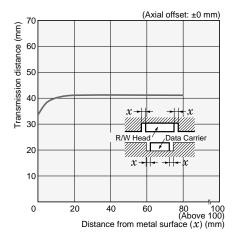
V600-D8KF04 Combined with V600-H07



V600-D8KR04 Combined with V600-H11



V600-D8KF04 Combined with V600-H11



Lower-level Communications Mode Setting (Distance/Time Priority)

The lower-level communications mode is set with the DIP Switch or memory switch on the Serial-interface Controller (V600-CA5D02, V600-CD1D-V3, V600-CM1D) or ID Sensor Unit. (Refer to the Controller's operation manual for more details on the setting.)

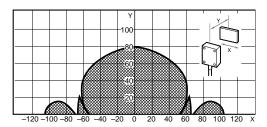
Characteristic Data (Typical)

■ Transmission Range

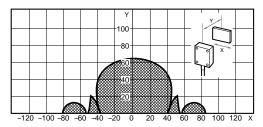
Note: The values shown in the following graphs are in millimeters. Refer to pages 10 to 16 for details on Data Carrier and R/W Head mounting conditions

Battery-less Data Carriers with Small Memory Capacity

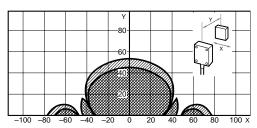
V600-D23P71 & V600-H07



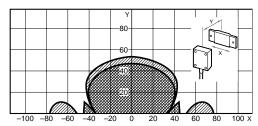
V600-D23P72 & V600-H07



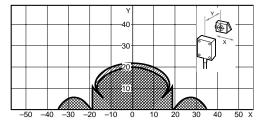
V600-D23P66N & V600-H07



V600-D23P66SP & V600-H07

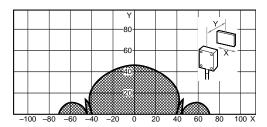


V600-D23P61 & V600-H11

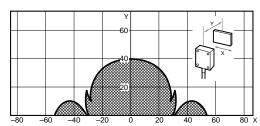


Read range (in transmission distance priority mode)

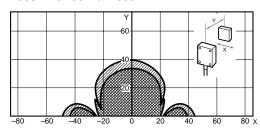
V600-D23P71 & V600-H11



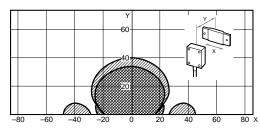
V600-D23P72 & V600-H11



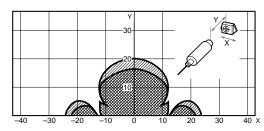
V600-D23P66N & V600-H11



V600-D23P66SP & V600-H11



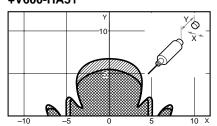
V600-D23P61 & V600-H51



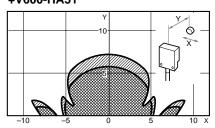
Write range (in transmission distance or transmission time priority mode) Read range (in transmission time priority mode)

OMRON

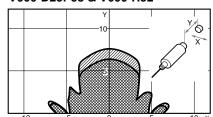
V600-D23P53 & V600-HS51 +V600-HA51



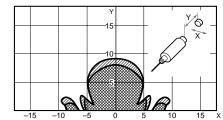
V600-D23P53 & V600-HS61 +V600-HA51



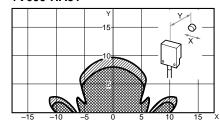
V600-D23P53 & V600-H52



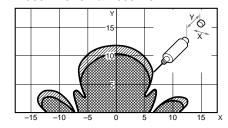
V600-D23P54 & V600-HS51 +V600-HA51



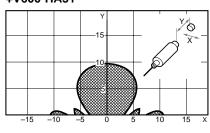
V600-D23P54 & V600-HS61 +V600-HA51



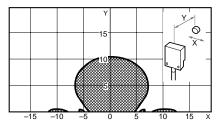
V600-D23P54 & V600-H52



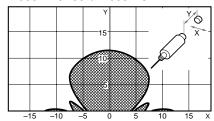
V600-D23P55 & V600-HS51 +V600-HA51



V600-D23P55 & V600-HS61 +V600-HA51



V600-D23P55 & V600-H52



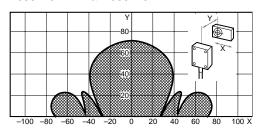
Read range (in transmission distance priority mode)

Write range (in transmission distance or transmission time priority mode)

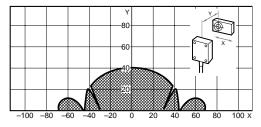
Read range (in transmission time priority mode)

Built-in-battery Data Carriers with Large Memory Capacity

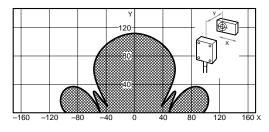
V600-D8KR12 & V600-H07



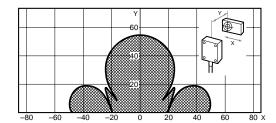
V600-D8KR13 & V600-H07



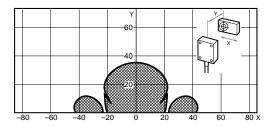
V600-D8KR04 & V600-H07



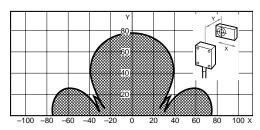
V600-D8KR12 & V600-H11



V600-D8KR13 & V600-H11

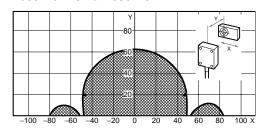


V600-D8KR04 & V600-H11

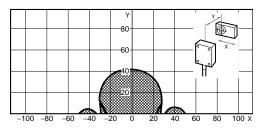


Battery-less Data Carriers with Large Memory Capacity

V600-D8KF04 & V600-H07

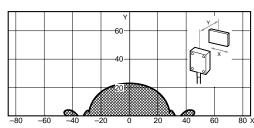


V600-D8KF04 & V600-H11



Replaceable-battery Data Carriers with Large Memory Capacity

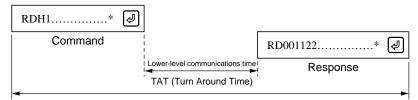
V600-D2KR16 & V600-H11



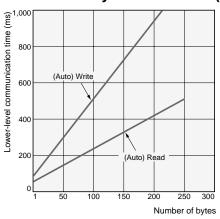
Read/Write range (in transmission distance or transmission time priority mode)

■ Communications Time

- The communications time does not depend on the model of R/W Head or Data Carrier, although communications times differ between Data Carriers with and without batteries.
- The turn around time (TAT) is the total time required from the issuance of a command from the host device (for example, a host computer) until the reception of a response.
- The lower-level communications time does not include the host communications; it is the time required for communications between the R/W Head and Data Carrier. The lower-level communications time is used in the equation for the DC speed.
 - DC Speed = (Distance travelled in the transmission range)/ (Lower-level communications time)



Lower-level Communications Time with Built-in-battery Data Carriers (Reference)

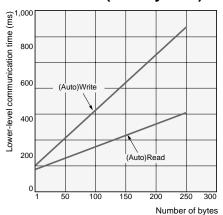


Calculation (Reference)

	Lower-level communications time (ms)
READ	t = 1.8 N + 48.4
WRITE	t = 4.2 N + 86.5

N is the number of processing bytes.

V600-D8KF04 (Battery-less)

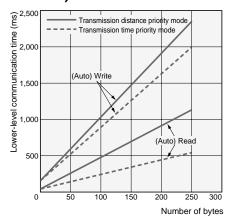


Calculation (Reference)

	Lower-level communications time (ms)
READ	t = 1.8 N + 168.4
WRITE	t = 4.2 N + 206.5

N is the number of processing bytes.

Lower-level Communications Time with Battery-less Data Carriers (Reference) (Battery-less Models Excluding V600-D8KF04)



Calculation (Reference)

	R/W	Lower-level communications time (ms)
Distance	READ	t = 4.3 N + 64.6
priority mode	WRITE	t = 8.7 N + 167.1
Time priority	READ	t = 1.8 N + 79.0
mode	WRITE	t = 7.1 N + 180.4

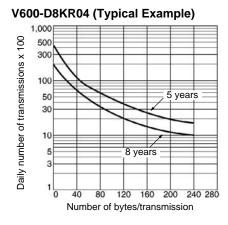
N is the number of processing bytes.

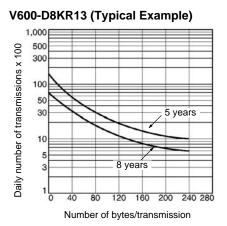
■ Battery Life

The Data Carrier has a built-in lithium battery.

The following graphs show the relationship between the number of bytes per transmission, the number of transmissions per day, and the battery life.

V600-D8KR12 (Typical Example) 1,000 500 Daily number of transmissions x 100 300 100 50 30 vears 10 8 years 120 80 160 200 Number of bytes/transmission



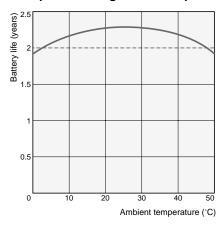


■ Temperature and Battery Life

V600-D2KR16

The battery life is two years at 25°C regardless of the relationship between the number of bytes read/written and the number of transmissions.

Examples Showing Relationship between Battery Life and Temperature



The following table shows the standard values.

Temperature	Battery consumption rate in one year
20°C	1%
30°C	2%
40°C	4%
50°C	8%
60°C	16%
70°C	32%

Note: If the battery is stored at 70°C and is not installed, the battery life is calculated as follows:

 $2 \text{ (years)} \times (1 - 0.32) = 1.36 \text{ years}$

If the battery is stored at 25° C after one year's storage, the battery life will be approximately 1 year and 4 months. (The battery life will be shortened if the battery is used at temperatures close to 0° C or 50° C.)

The values in the above graph are based on the battery being installed (i.e., the insulation sheet is removed). If the battery is not installed, the values shown in the above table will apply.

Data Carrier Batteries

Built-in-battery Data Carriers

∕• WARNING

The SRAM-type Data Carrier has a built-in lithium battery which may occasionally ignite, explode, and burn if mishandled. Do not disassemble, deform, heat above 212°F (100°C), or incinerate the Data Carrier



Replaceable-battery Data Carriers

⚠ WARNING

The SRAM-type Data Carrier has replaceable lithium batteries which may occasionally take fire, explode, burn, or leak liquid if mishandled. Do not deform, heat above 212°F (100°C), incinerate, or charge the batteries, or short-circuit their positive and negative terminals.



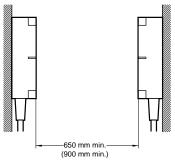
■ Mutual Interference (Reference Values)

Mutual Interference between R/W Heads

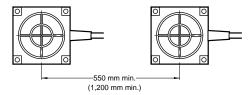
When more than one set of R/W Heads are used, mutual interference between the Heads can be avoided by mounting the Heads at the specified distance as shown below.

V600-H07

 Facing RD/WT command: 650 mm min. Auto command: 900 mm min.

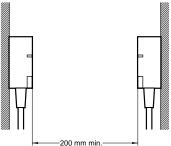


 Side-by-side RD/WT command: 550 mm min. Auto command: 1,200 mm min.

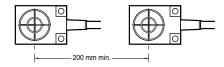


V600-H11

 Facing RD/WT command: 200 mm min. Auto command: 200 mm min.

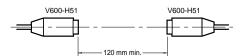


Side-by-side
 RD/WT command: 200 mm min.
 Auto command: 200 mm min.

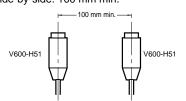


V600-H51

• Facing: 120 mm min.



• Side-by-side: 100 mm min.

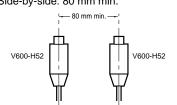


V600-H52

· Facing: 80 mm min.



• Side-by-side: 80 mm min.

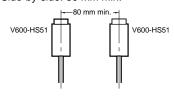


V600-HS51

• Facing: 80 mm min.

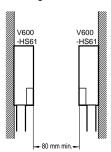


• Side-by-side: 80 mm min.

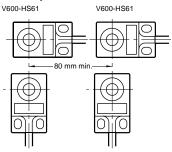


V600-HS61

• Facing: 80 mm min.



• Side-by-side: 80 mm min.



Note: If the two R/W Heads are not transmitting simultaneously (i.e., independent read/write), mutual interference will not occur. Therefore, the restriction on the distance between the Heads will not be applicable.

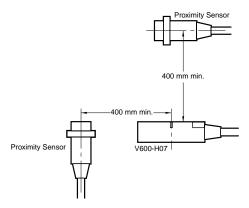
The commands will be received by the R/W Heads and transmission will oscillate between them.

Mutual Interference between Proximity Sensors

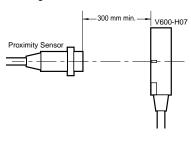
The V600-series Units use electromagnetic coupling (frequency: 530 kHz). When a V600 Unit is wired close to R/W Heads, Proximity Switches, and Sensors that have an oscillating frequency between 400 and 600 kHz, the Proximity Sensor may malfunction, so be sure to install the Units according to the distance restrictions specified in the following diagrams. Make sure to thoroughly test that the mounting positions and the fixed positions of the Sensors are correct before putting them into actual operation.

V600-H07

• Vertical/Parallel: 400 mm min.



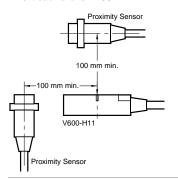
• Facing: 300 mm min.



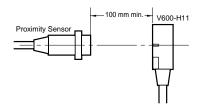
OMRON

V600-H11

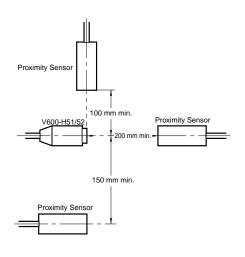
• Vertical/Parallel: 100 mm min.



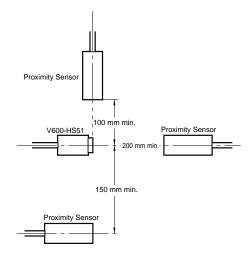
• Facing: 100 mm min.



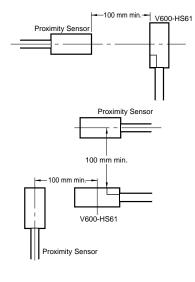
V600-H51/H52



V600-HS51



V600-HS61



Mutual Interference between Data Carriers

When more than one Data Carrier is used, mutual interference between the DCs can be avoided by making sure that they are mounted apart at the distances specified below.

Reading/Writing

V600-D23P53

R/W Head: V600-H52, V600-HS51 + V600-HA51, V600-HS61 + V600-HA51



V600-D23P55

R/W Head: V600-H52, V600-HS51 + V600-HA51, V600-HS61 + V600-HA51

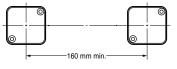


V600-D23P66N

R/W Head: V600-H11



R/W Head: V600-H07



V600-D23P72

R/W Head: V600-H11





V600-D23P71 R/W Head: V600-H07



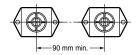
V600-D23P54

R/W Head: V600-H52, V600-HS51 + V600-HA51, V600-HS61 + V600-HA51



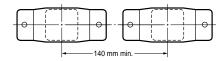
V600-D23P61

R/W Head: V600-H11/-H51

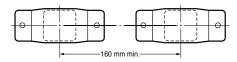


V600-D23P66SP

R/W Head: V600-H11



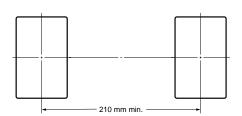
R/W Head: 600-H07





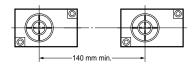
R/W Head: V600-H07

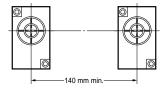




V600-D8KR12

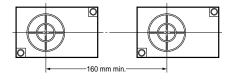
R/W Head: V600-H11

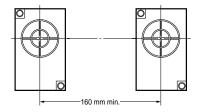




V600-D8KR13

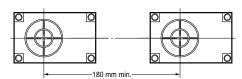
R/W Head: V600-H11

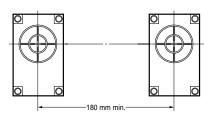




V600-D8KR04/V600-D8KF04

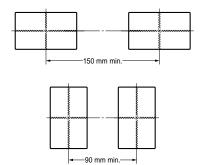
R/W Head: V600-H11



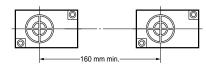


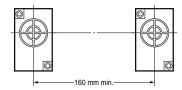
V600-D2KR16

R/W Head: V600-H11

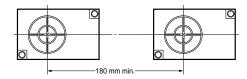


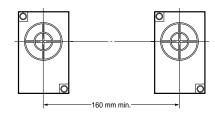
R/W Head: V600-H07



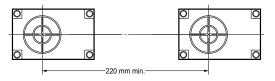


R/W Head: V600-H07





R/W Head: V600-H07



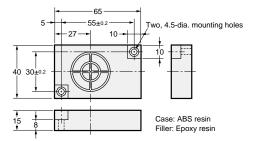
Dimensions

Note: All units are in millimeters unless otherwise indicated.

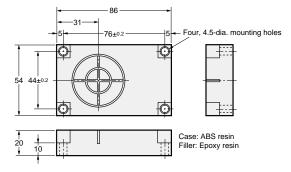
Data Carriers with Large Memory Capacity

Built-in-battery DCs

V600-D8KR12

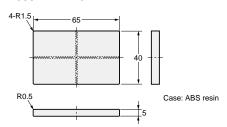


V600-D8KR04



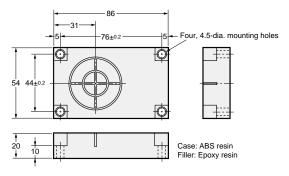
Replaceable-battery DCs

V600-D2KR16

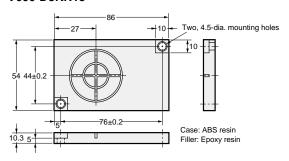


Battery-less DCs

V600-D8KF04



V600-D8KR13

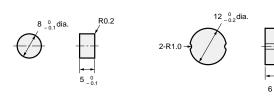


Data Carriers with Small Memory Capacity

Battery-less DCs

V600-D23P53

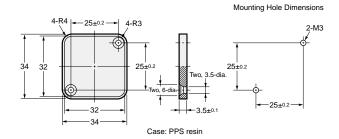
V600-D23P54



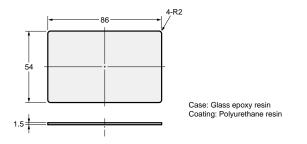
Case: ABS resin Filler: Epoxy resin

Case: ABS resin Filler: Epoxy resin

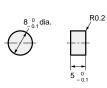
V600-D23P66N



V600-D23P71

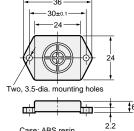


V600-D23P55



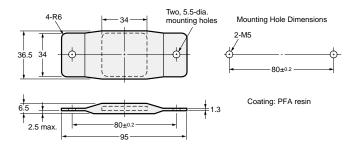
Case: PPS resin Filler: Epoxy resin

V600-D23P61

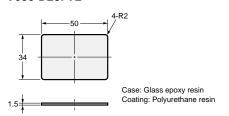


Case: ABS resin Filler: Epoxy resin

V600-D23P66SP

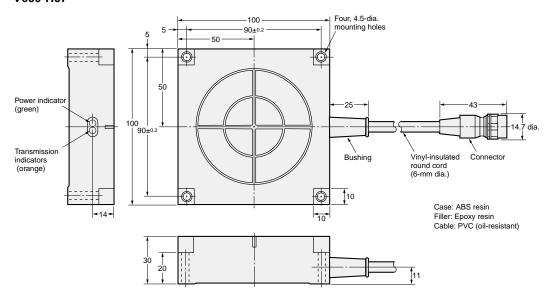


V600-D23P72

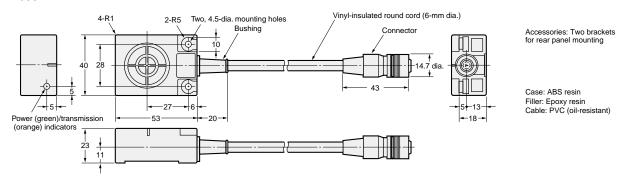


R/W Heads

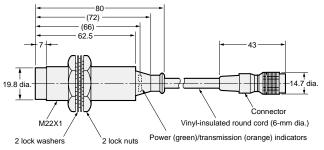
V600-H07



V600-H11

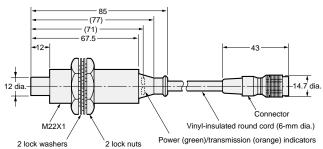


V600-H51



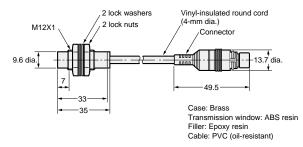
Case: Brass Transmission window: ABS resin Filler: Epoxy resin Cable: PVC (oil-resistant)

V600-H52

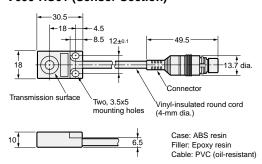


Case: Brass Transmission window: ABS resin Filler: Epoxy resin Cable: PVC (oil-resistant)

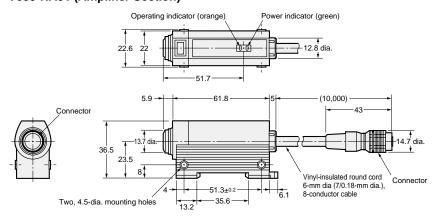
V600-HS51 (Sensor Section)



V600-HS61 (Sensor Section)



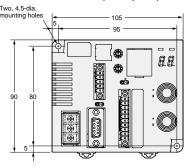
V600-HA51 (Amplifier Section)

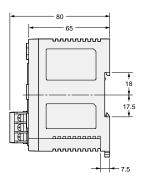


Case: ABS resin Filler: Epoxy resin Cable: PVC (oil-resistant)

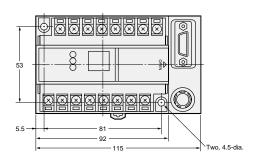
ID Controllers

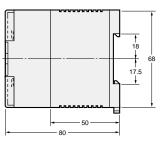
V600-CA5D02 (Compact)



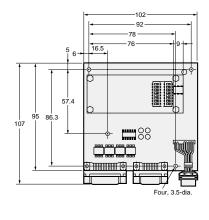


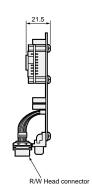
V600-CD1D-V3 (Compact)





V600-CM1D (Board-mounted)

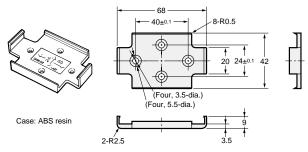




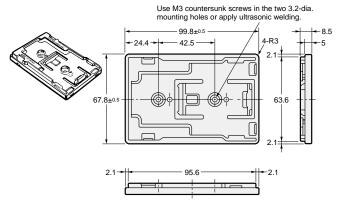
■ Accessories

Holder

V600-A81

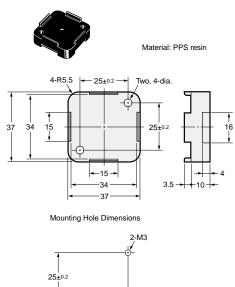


V600-A84



Attachment

V600-A86



25±0.2 —

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.



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Cat. No. Q124-E1-03

Mouser Electronics

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Omron:

V600-D23P54



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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42

Электронная почта: <u>org@eplast1.ru</u>

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