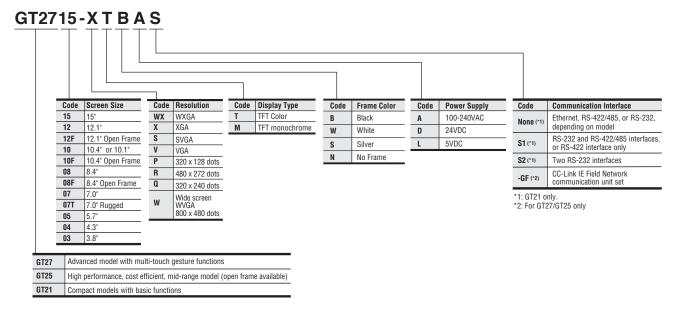
GT25 Series



GOT2000 Series General Specifications

Model Number	GT27, GT25		GT25 (Rugged) (*8	GT25 (Rugged) (*8)		GT21		
Operating Ambient Temp. (*1)	0 to 55°C (*2)		-20 °C to 65 °C		0 to 55°C (horizontal installation), 0 to 50°C (vertical installation)			
Storage Ambient Temperature	-20°C to 60°C		-30 °C to 75 °C		-20°C to 60°C			
Operating Ambient Humidity	10 to 90%RH, no co	ndensation			10 to 90%RH, no c	ondensation (*2)		
Storage Ambient Humidity	10 to 90%RH, no co	ndensation			10 to 90%RH, no c	ondensation (*2)		
			Frequency	Acceleration	Half Amplitude	Sweep Count		
		Under intermittent	5 to 8.4Hz	-	3.5mm GT25: 7.0mm	10 times each in X,		
Vibration Resistance	Conforming to JIS B 3502 and IEC	vibration	8.4 to 150Hz	9.8m/s ² GT25 19.6 m/s ²	-	Y and Z directions		
	61131-2	Under continuous vibration	5 to 8.4Hz	-	1.75mm GT25: 7.0mm			
			8.4 to 150Hz	4.9m/s ² GT25 19.6 m/s ²	-			
Shock Resistance	-		IEC 60068-2-27 (392m/s² (40G), 3 times in each X, Y, or Z direction)		-			
	Compliant with JIS B 3502, IEC 61131-2 (147 m/s² (15G), 3 times each in X, Y and Z directions)							
Operating Atmosphere (*6)	No greasy fumes, co	rrosive gas, flammable	gas, excessive cond	uctive dust, and direct s	unlight (as well as at	storage)		
Operating Altitude (*3)	2000m (6562 ft) or le	ess						
Installation Location	Inside control panel							
Overvoltage Category (*4)	II or less							
Pollution Degree (*5)	2 or less							
Cooling Method	Self-cooling							
Grounding	Grounding with a ground resistance of 100Ω or less. If impossible, connect the ground cable to the control panel.		Grounding with a ground resistance of $100~\Omega$ or less by using a ground cable that has a cross-sectional area of $2~\text{mm}^2$ or more. If impossible, connect the ground cable to the control panel.		Grounding with a ground resistance of 100Ω or less by using a ground cable that has a cross-sectional area of 0.14 to 1.5 mm² (single wire), 0.14 to 1.0 mm² (stranded wire), or 0.25 to 0.5 mm² (rod terminal with an insulation sleeve). If impossible, connect the ground cable to the control panel. (*7)			

Notes:

- The operating ambient temperature includes the temperature inside the enclosure of the control panel to which the GOT is installed.
- (GT27, GT25) When any of the following units is mounted, the maximum operating ambient temperature must be 5 °C lower than the one described in the general specifications: multimedia unit (GT27-MMR-Z), MELSECNET/H communication unit (GT15-J71LP23-25, GT15-J71BR13), CC-Link communication unit (GT15-J61BT13) (GT21) If the ambient temperature exceeds 40°C, the absolute humidity must not exceed 90% RH at 40 °C.
- Do not use or store the GOT under a pressure higher than the atmospheric pressure at altitude 0 m. Doing so may cause a malfunction. Air purging by applying pressure to the control panel may create clearance between the surface sheet and the touch panel. This may cause the touch panel to be not sensitive enough or the sheet to come off.
- This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category Il applies to equipment that is supplied with power from fixed facilities. The withstand surge voltage for the equipment with the rated voltage up to 300 V is 2500 V.

 This indicates the occurrence rate of conductive material in an environment where a device is used. Pollution degree 2 indicates an environment where only non-conductive pollution occurs normally and a
- temporary conductivity caused by condensation shall be expected depending on the conditions.
- (GT25, GT27 only) Some models have ANSI/ISA 12.12.01 approval for use in Class I, Division 2 (ANSI/ISA 12.12.01, C22.2 No.213-M1987) hazardous locations. For the details, please contact your local sales office.
- 5 VDC type does not require grounding.
- Communication units and options usable with the rugged model can be used in the environment described in the general specifications of the rugged model. For using peripheral devices to be connected to the GOT, refer to the manual of each device.

GT25 Base Units

Category	Model Number	Screen Size	Resolution	Display Type	Frame Color	Power Supply	Stocked Item
GT2512	GT2512-STBA	10.1"	01/04 (000 000)		Black	100-240VAC	S
U12312	GT2512-STBD	12.1"	SVGA (800 x 600)		DIACK	24VDC	S
	GT2510-VTBA]	Black	100-240VAC	S
	GT2510-VTBD	10.4"	VGA (640 x 480)		Diack	24VDC	S
GT2510	GT2510-VTWA	10.4	VGA (040 X 460)		White	100-240VAC	S
612510	GT2510-VTWD	1			vviiite	24VDC	S
	GT2510-WXTBD	10.1"	WXGA (1280 x 800)		Black	24VDC	S
	GT2510-WXTSD	10.1"			Silver	24VDC	S
	GT2508-VTBA	8.4"	VGA (640 x 480)	TFT Color	Black	100-240VAC	S
GT2508	GT2508-VTBD					24VDC	S
U12000	GT2508-VTWA				White	100-240VAC	S
	GT2508-VTWD]			vviiite	24VDC	S
	GT2507-WTBD]	Black	24VDC	S
GT2507	GT2507-WTSD	7.0"	WVGA (800 x 480)		Silver	24VDC	S
	GT2507T-WTSD (Rugged)]	, ,		Silver	24VDC	S
GT2505	GT2505-VTBD	5.7"	VGA (640 x 480)		Black	24VDC	S

GT25 Open Frame Base Units

Category	Model Number	Screen Size	Resolution	Display Type	Frame Color	Power Supply	Stocked Item
	GT2512F-STNA	12.1"	SVGA (800 x 600)	TFT color (65536 colors)		100-240VAC	S
	GT2512F-STND	12.1				24VDC	S
	GT2510F-VTNA	10.4"	VGA (640 x 480)		No frama	100-240VAC	S
	GT2510F-VTND				No frame	24VDC	S
	GT2508F-VTNA	8.4"	VGA (640 x 480)			100-240VAC	S
	GT2508F-VTND					24VDC	S

Note 1: Always attach an environmental protection sheet dedicated to the open frame model (sold separately) to the display section. Or, attach a user-prepared environmental protection sheet. Not doing so may damage or soil the GOT or cause foreign matter to enter the GOT, resulting in a failure or malfunction

GT25 GOT + CC-Link IE Field Network Communication Unit Sets

Category	Model Number	Screen Size	Resolution	Display Type	Frame Color	Power Supply	Stocked Item
GT2512	GT2512-STBA-GF	12.1"	01/04 (000 000)		Black	100-240VAC	S
G12012	GT2512-STBD-GF	12.1	SVGA (800 x 600)	TFT Color	DIACK	24VDC	S
	GT2510-VTBA-GF		VGA (640 x 480)		Black	100-240VAC	S
GT2510	GT2510-VTBD-GF	10.4"			DIACK	24VDC	S
612010	GT2510-VTWA-GF	10.4			White	100-240VAC	S
	GT2510-VTWD-GF				vviiite	24VDC	S
	GT2508-VTBA-GF		VGA (640 x 480)		Black	100-240VAC	S
GT2508	GT2508-VTBD-GF	8.4"			Diack	24VDC	S
	GT2508-VTWA-GF				White	100-240VAC	S
	GT2508-VTWD-GF				VVIIILE	24VDC	S

GT25 Power Supply Specifications

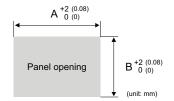
Model Number		GT2512-STBA GT2512F-STNA	GT2510-VTBA GT2510-VTWA GT2510F-VTNA	GT2508-VTBA GT2508-VTWA GT2508F-VTNA	GT2512-STBD GT2512F-STND	GT2510-VTBD GT2510-VTWD GT2510F-VTND	GT2508-VTBD GT2508-VTWD GT2508F-VTND	GT2505-VTBD	
Input Power S	upply Voltage	100 to 240VAC (+10%, -15%)			24VDC (+25%, -	20%)		24 VDC (+10%, -15%)	
Input Power S	upply Frequency	50/60Hz ±5%			-				
	Maximum Load	35W or less	34W or less	31W or less	37W or less	33W or less	31W or less	8.4 W or less	
Power	Stand Alone	14W	12W	11W	13W	10W	8W	4.3 W	
Consumption	Stand Alone with Backlight Off	7W	7W	7W	6W	6W	6W	2.6 W	
Inrush Current		60A or less (2ms, ambient temperature 25°C, maximum load)			5A or less (20ms, ambient temperature 25°C, maximum load)			42 A or less (2 ms, ambient temperature: 25°C, under the maximum load)	
Permissible In Failure Time	stantaneous	Within 20ms (100VAC or more)			Within 10ms			10 ms or less	
Noise Resistance		Noise voltage 1500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz				OVp-p, noise width frequency 25 to 60	Noise voltage: 1000 Vp-p, noise width: 1 µs, measured by a noise simulator with noise frequency ranging from 30 Hz to 100 Hz		
Withstand Vol	tage	1500 VAC for 1 minute between power supply terminal and ground			350 VAC for 1 m and ground	inute between pow	500 VAC for 1 minute across power terminals and earth		
Insulation Res	istance	10MΩ or higher v	vith an insulation r	esistance tester (5	(500 VDC between power supply terminal and ground)				
Applicable Wire Size 0.75 to 2 [mm²]									
Clamp Termin	al	Clamp terminals for M3 screw RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A							
	ning Torque (Terminal 8 Terminal Screws) 0.5 to 0.8 [N·m]								

GT25 Power Supply Specifications (continued)

Model Numbe	r	GT2510-WXTBD • GT2510-WXTSD	GT2507-WTBD • GT2507-WTSD	GT2507T-WTSD				
Input Power S	upply Voltage	24VDC (+25%, -20%)						
Input Power S	upply Frequency	-						
	Maximum Load	16 W or less	16 W or less	17 W or less				
Power	Stand Alone	9 W or less	9 W or less	11 W				
Consumption	Stand Alone with Backlight Off	5 W or less	5 W or less	7 W				
Inrush Current 59 A or less (2 ms, ambient temper			nperature: 25°C, under the maximum load)					
Permissible Instantaneous Failure Time		5 ms or less						
Noise Resista	nce	Noise voltage 500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz						
Withstand Vol	tage	350 VAC for 1 minute between power supply terminal and ground						
Insulation Res	istance	$10M\Omega$ or higher with an insulation resistance to	ester (500 VDC between power supply tern	ninal and ground)				
Applicable Wi	re Size	0.75 to 2 [mm²]						
Clamp Termin	al	Solderless terminal for M3 screw RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A						
Tightening To Block's Termin	que (Terminal nal Screws)	0.5 to 0.8 [N·m]						

GT25 Panel Cut Dimensions

Screen Size	Model	A	В	Remarks
12.1"	GT2512	302 (11.89)	228 (8.98)	Same dimensions as GT1685, GT1585, A985GOT
12.1	GT2512F	214 (8.43)	269 (10.59)	-
40.41	GT2510	289 (11.38)	200 (7.87)	Same dimensions as GT167_M, GT157_M, A97MGOT
10.4"	GT2510F	187 (7.36)	234 (9.21)	-
10.1"	GT2510-WX	243.5 (9.59)	185.5 (7.30)	Panal thickness 1.6 (0.06) to 4 (0.16)
7"	GT2507-W	180.5 (7.11)	133.5 (5.26)	Panel thickness 1.6 (0.06) to 4 (0.16)
1	GT2507T-W	197 (7.76)	141 (5.55)	Panel thickness 1.6 (0.06) to 4 (0.16)
8.4"	GT2508	227 (8.94)	176 (6.93)	Same dimensions as GT1665, GT1565
0.4	GT2508F	158 (6.22)	194 (7.64)	-
5.7"	GT2505	156 (6.02)	121 (4.76)	Same dimensions as GT1455, GT1450



GT25 Performance Specifications

Model Number		GT2512-STBA GT2512-STBD	GT2512F-STNA GT2512F-STND	GT2510-VTBA GT2510-VTBD	GT2510-VTWA GT2510-VTWD	GT2510F-VTNA GT2510F-VTND	GT2510-WXTBD GT2510-WXTSD			
	Туре	TFT color LCD	TFT color LCD							
	Screen Size	12.1"		10.4"	10.1" Wide					
	Resolution (Dots)	800 x 600 dots SVGA	-	640 x 480 VGA	WXGA: 1280 × 800 dots					
	Display Size (W x H) mm	246 x 184.5	-	211.2 x 158.4	216.96 x 135.6					
Display Section (*1, *2)	Number of Characters	16-dot standard font: (2-byte) 12-dot standa lines (2-byte)		16-dot standard font: 12-dot standard font:	16-dot standard font: 80 characters × 50 lines (two-byte) 12-dot standard font: 106 characters × 66 lines (two-byte)					
	Display Colors	65536 colors								
	Intensity Adjustment	32-level adjustment								
	Туре	LED (not replaceable)								
Backlight	Life (*4)	Approx. 60000 hours or more (Time for display intensity reaches 50% at ambient temperature of 25°C) Approx. 60000 hours or more (Time for display intensity reaches 50% at ambient tempe display for tempe display 50%)								
	Туре	Analog resistive film								
Touch Panel	Key Size (Dots)	Minimum 2 x 2 dots ()	per key) (*8)							
(*3)	Simultaneous Press	Not available (*5) (onl	y 1 point can be presse	d)						
	Life	1 million times or mor	e (operating force 0.98ľ	V or less)						
Panel Color		Black	-	Black	White	-	GT2510-WXTBD: Black GT2510-WXTSD: Silver			
Memory	User Memory Capacity	Memory for storage (ROM): 32MB, Memory for operation (RAM): 80MB 32MB opera								
	Life (No. of Writings)	100,000 times								
Internal Clock	Accuracy	±90 sec/month (ambient temperature 25°C)								
Battery	Туре	GT11-50BAT lithium b	attery							
Dallery	Life	Approx. 5 years (ambi	ent temperature 25°C)							
	RS-232	1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (male)								
	RS-422/485	1ch Transmission spec	ed: 115200/57600/3840	0/19200/9600/4800bps	Connector shape: D-su	ıb 9-pin (female)				
	Ethernet	1ch Data transfer meth	nod: 10BASE-T/100BAS	E-TX Connector shape:	RJ-45 (modular jack)		2ch			
	110D (114)	2ch (front/rear face)	1ch (rear face)	2ch (front/rear face)	1ch (rear face)					
	USB (Host)	Maximum transfer spe	ed: High-Speed 480Mb	ps Connector shape: US	SB-A					
	110P (P)	1ch (front face)	1ch (rear face)	1ch (front face)	1 channel (rear face)		1 ch (front face)			
	USB (Device)	Maximum transfer rate	e: High-Speed 480 Mbps	Connector shape: USE	B Mini-B					
Built-in Interface	SD Memory Card	1ch SDHC compliant (maximum 32GB)							
interiace	Extension Interface	For communication un	nit/option unit mounting	,			-			
	Side Interface		s LAN communication (ınit						
	Sound Output Interface	-	1 channel, WAV format (16 bits, 8 kHz/16 kHz, monoral) applicable plug: \$3.5 stereo mini-plug (3-prong)							
Buzzer Output		Single tone (tone, tone								
Power LED		Emission color: 2 colo		1						
Protective Con	struction	Front: IP67F (*6, *9) Inside control panel: IP2X	Front: IP67F (*7, *9) Inside control panel: IP2X	Front: IP67F (*6, *9) Inside control panel: I	P2X	Front: IP67F (*7, *9) Inside control panel: IP2X	Front: IP67F (*6*9) In control panel: IP2X			
External Dimensions (W x H x D) mm		316 x 246 x 52	311 x 237 x 54	303 x 218 x 52		298 x 209 x 54	252 x 194 x 48			
Panel Cutout (W x H) mm	302 x 228	269 x 214	289 x 200		234 x 187	243.5 x 185.5			
Weight (Exclud	ling Mounting Brackets) kg	2.4	•	2.1		•	1.2			
,	tware Package	GT Works3 Version1.122C or later	GT Works3 Version1.150G or later	GT Works3 Version1.1	12S or later	GT Works3 Version1.150G or later	GT Works3 Version 1.175H or later			
Notes:										

- 1. As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged.

 Flickering may occur due to vibration, shock, or the display colors.

 When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications: • Material: polyacetal resin • Tip radius: 0.8 mm or more

- To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.

 If you touch two points or more simultaneously on the touch panel, a touch switch near the touched points may operate unexpectedly. Do not touch two points or more simultaneously on the touch panel.

 To conform to IP67F, close the USB environmental protection cover by pushing the [PUSH] mark firmly. (To conform to IP2X, open the USB environmental protection cover.) Note that the structure does not
- guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.

 To conform to IP67F attach the environmental protection sheet. Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is
- subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.
- 8. The minimum size of a key that can be arranged. To ensure safe use of the product, the following settings are recommended: Key size: 16 x 16 dots or larger Distance between keys: 16 dots or more 9. The suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.

GT25 Performance Specifications (continued)

Model Number		GT2508-VTBA GT2508-VTBD	GT2508-VTWA GT2508-VTWD	GT2508F-VTNA GT2508F-VTND	GT2507-WTBD GT2507-WTSD	GT2507T-WTSD	GT2505-VTBD			
	Туре	TFT color LCD								
	Screen Size	8.4"			7" Wide		5.7"			
	Resolution (Dots)	640 x 480 VGA			WVGA:800 x 480 dots		640 x 480 VGA			
	Display Size (W x H) mm	170.9 x 128.2			152.40 x 91.44		115.2 x 86.4			
Display Section (*1, *2)	Number of Characters	font: 53 chars. × 40 lir	40 chars. × 30 lines (2- nes (2-byte)	byte); 12-dot standard	16-dot standard font: 5 rows (Two-byte charact font: 66 characters × 40 characters)	16-dot standard font: 40 chars. × 30 lines (2-byte); 12-dot standard font: 53 chars. × 40 lines (2-byte)				
	Display Colors	65536 colors								
	Intensity Adjustment	32-level adjustment								
	Туре	LED (not replaceable)								
Backlight	Life (*4)	Approx. 60000 hours 50% at ambient tempe	Approx. 60000 hours or more (Time for display intensity reaches 50% at ambient temperature of 25°C)							
	Туре	Analog resistive film								
Touch Panel	Key Size (Dots)	Minimum 2 x 2 dots (per key) (*8)							
(*3)	Simultaneous Press	. , , ,	y 1 point can be presse							
	Life	1 million times or more (operating force 0.98N or less)								
Panel Color		Black	White	-	GT2507-WTBD: Black GT2507-WTSD: Silver	Silver	Black			
Memory	User Memory Capacity ROM (Storage) RAM (Operation)	ROM: 32MB; RAM: 80MB ROM: 32MB; RAM: 128MB					ROM: 32MB; RAM: 80MB			
	Life (No. of Writings)	100,000 times	· · · · · · · · · · · · · · · · · · ·							
Internal Clock	Accuracy	±90 sec/month (ambient temperature 25°C)								
Battery	Туре	GT11-50BAT lithium battery								
Dattery	Life	Approx. 5 years (ambient temperature 25°C)								
	RS-232	1ch Transmission spe	ed: 115200/57600/3840	00/19200/9600/4800bps	Connector shape: D-sub	9-pin (male)				
	RS-422/485	1ch Transmission spec	ed: 115200/57600/3840	0/19200/9600/4800bps	Connector shape: D-sub	9-pin (female)				
	Ethernet	1ch			2ch		1ch			
	USB (Host)	2ch (front/rear face) Maximum transfer spe	1ch (rear face) ed: High-Speed 480Mb	ps Connector shape: US	SB-A					
Destination		1ch (front face)	1ch (rear face)		1ch (front face)	1ch (front face)				
Built-in Interface	USB (Device)		,	s Connector shape: USI	, ,	1ch (rear face)	(
IIItoriaco	SD Memory Card	1ch SDHC compliant (
	Extension Interface	· ' '	it/option unit mounting		-	-	_			
	Side Interface		s LAN communication				_			
	Sound Output Interface	-			1 channel, WAV format kHz, monoral) applicab miniplug (3-prong)	-				
Buzzer Output	'	Single tone (tone, tone	e length adjustable)		, , , , , ,					
Power LED		Emission color: 2 colo								
Protective Construction		Front: IP67F (*6, *9) Inside control panel: II	P2X	Front: IP67F (*7, *9) Inside control panel: IP2X	Front: IP67F (*6*9) In control panel: IP2X	Front: IP66F / IP67F (*9) In control panel: IP2X	Front: IP67F (*7, *9) Inside control panel: IP2X			
External Dimensions (W x H x D) mm		241 x 194 x 52		236 x 185 x 54	189 x 142 x 48	214 x 158 x 55	164 x 139 x 53.5			
Panel Cutout (W x H) mm	227 x 176		194 x 158	180.5 x 133.5	197 x 141	153 x 121			
•	ling Mounting Brackets) kg				0.75	1.2	0.6			
Applicable Software Package		GT Works3 Version1.1	12S or later	GT Works3 Version1.150G or later	GT Works3 Version 1.1		GT Works3 Version1.180N or later			

Notes:

- As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged.
- Flickering may occur due to vibration, shock, or the display colors.

 When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications: Material: polyacetal resin Tip radius: 0.8 mm or more
- To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.
- If you touch two points or more simultaneously on the touch panel, a touch switch near the touched points may operate unexpectedly. Do not touch two points or more simultaneously on the touch panel, a touch switch near the touched points may operate unexpectedly. Do not touch two points or more simultaneously on the touch panel, a touch switch near the touched points may operate unexpectedly. Do not touch two points or more simultaneously on the touch panel, To conform to IP67F, close the USB environmental protection cover by pushing the [PUSH] mark firmly. (To conform to IP2X, open the USB environmental protection cover.) Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.
- To conform to 1P67F attach the environmental protection sheet. Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.

 The minimum size of a key that can be arranged. To ensure safe use of the product, the following settings are recommended: Key size: 16 x 16 dots or larger Distance between keys: 16 dots or more
- The suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.