Product Discontinuation Notices

Product Discontinuation	Recommended Replacement
Vision Systems	Vision Systems
FH-L550 **FH-L550-10**	**FH-L551** **FH-L551-10**

[Final order entry date]
The end of September, 2024

[Date of The Last Shipping]
The end of July, 2025

[Scheduled date of maintenance close]
The end of March, 2030

[Caution on recommended replacement]
Processing performances such as processing time of processing item and communication response time will change because of replacement with the recommended replacement.
The operation of the equipment may be affected by it.
When replacing, please check the operation of the equipment.

About available application software versions
Only Ver.6.51 or later application software can be used with the recommended replacement.
Do not downgrade it to Ver.6.40 or earlier version.

If you are using customization software
Customized software designed for the product discontinuation cannot be operated with F the recommended replacement. Please contact our sales department.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charac-teristics	Operation ratings	Operation methods
FH-L551	**	**	**	**	*	*	**
FH-L551-10	**	**	**	**	*	*	**

** : Compatible
* : The change is a little/Almost compatible
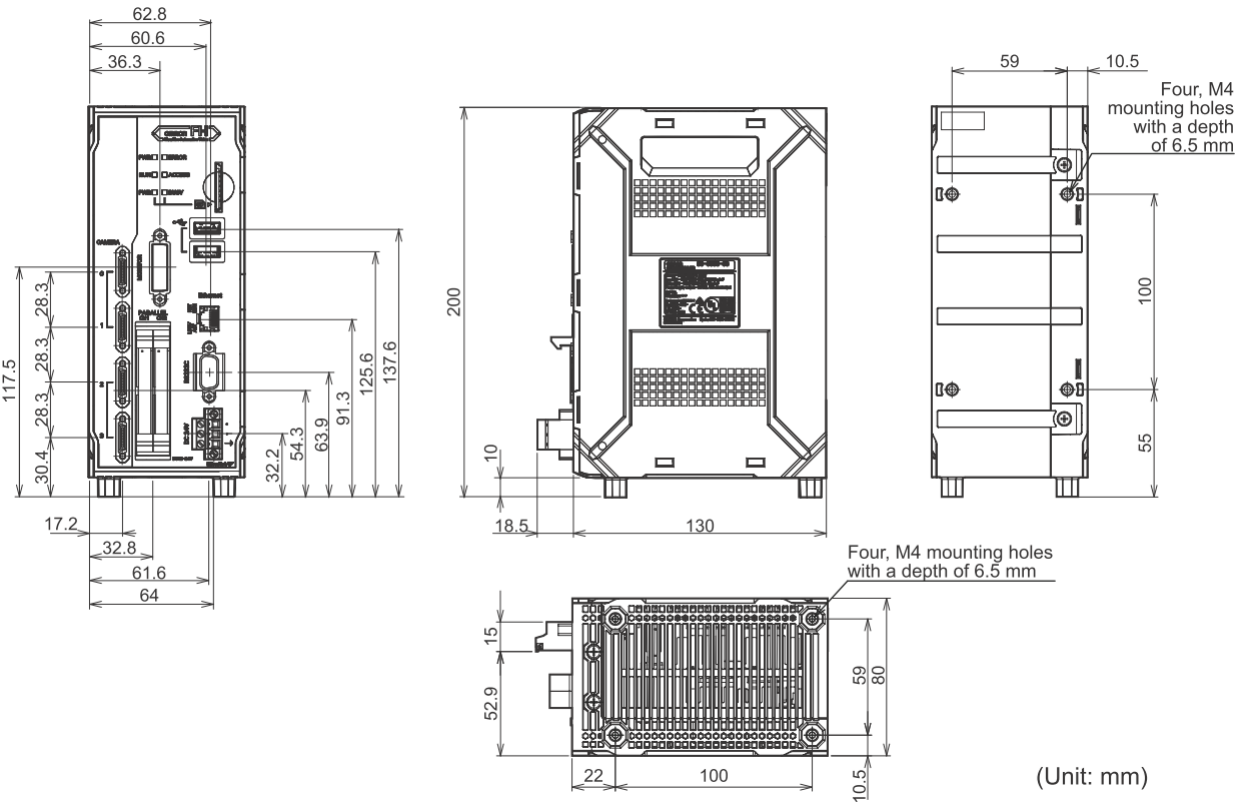-- : Not compatible
- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
FH-L550	FH-L551
FH-L550-10	FH-L551-10

[Body color]

Product discontinuation Model FH-L550-[]	Recommendable replacement Model FH-L551-[]
Model FH-L550-[] / Model FH-L551-[] Black	

[Dimensions]

Product discontinuation Model FH-L550-[]	Recommendable replacement Model FH-L551-[]
Model FH-L550-[] / Model FH-L551-[] 200 mm x 80 mm x 130 mm	

(Unit: mm)

[Wire connection]

Product discontinuation Model FH-L550-[]	Recommendable replacement Model FH-L551-[]

Model FH-L550-[] / Model FH-L551-[]

	Connector name	Description
(A)	SD memory card installation connector	Install the SD memory card. Do not plug or unplug the SD memory card during measurement operation. Otherwise measurement time may be affected or data may be destroyed.
(B)	USB2.0 connector	Connects to USB 2.0. Do not plug or unplug it during measurement. Otherwise measurement time may be affected or data may be destroyed.
(C)	USB3.0 connector	Connects to USB 3.0. Do not plug or unplug it during measurement. Otherwise measurement time may be affected or data may be destroyed. USB 3.0 has a high ability to supply the bus power. Use the Sensor Controller by combining USB 3.0, faster transport can be realized.
(D)	Ethernet connector	Connect an Ethernet device. Ethernet port, EtherNet/IP port, and PROFINET port are sharing use.
(E)	RS-232C connector	Connect an external device such as a PLC.
(F)	Monitor connector	Connect a monitor.
(G)	I/O (Parallel) connector (control lines, data lines)	Connect the controller to external devices such as a sync sensor and PLC.
(H)	Camera connector	Connect cameras.
(I)	Power supply terminal connector	Connect a DC power supply. Wire the FH Sensor Controller independently on other devices. Wire the ground line. Be sure to ground the FH Sensor Controller alone. Use an attachment power terminal (male) for installation. For details, refer to *5-3 Sensor Controller Installation* on page 5-5.

[Mounting dimensions]

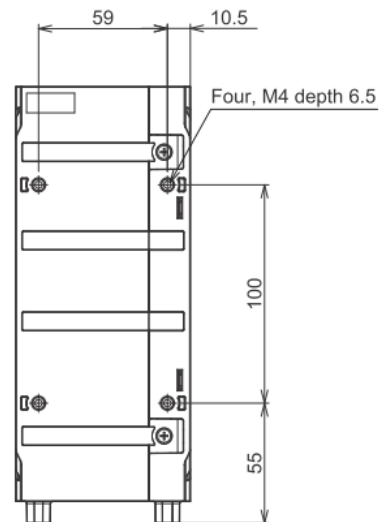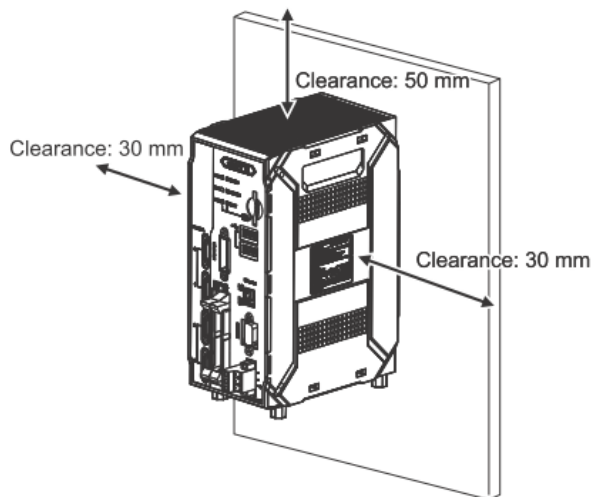| Product discontinuation Model FH-L550-[]	Recommendable replacement Model FH-L551-[]

Model FH-L550-[] / Model FH-L551-[]
Mounting the base of the Sensor Controller (Floor mounting)

- Recommended tightening torque: 0.54 to 0.6 N•m
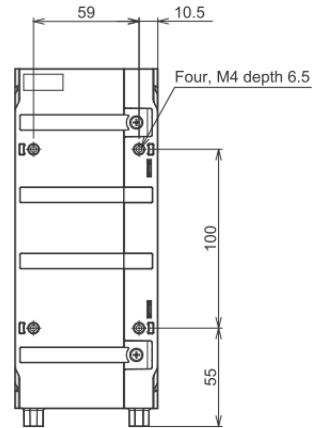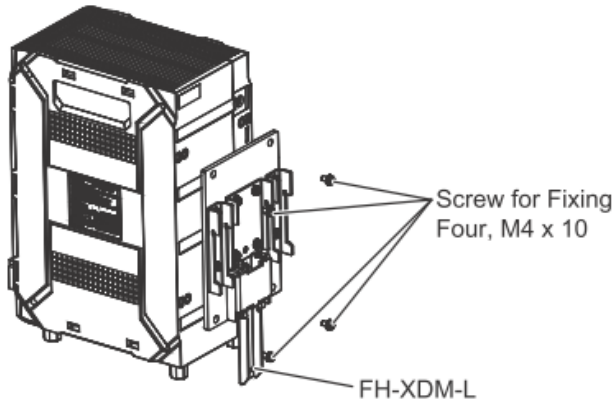- The tolerance: ±0.2 mm

Mounting of the Back Side

- Recommended tightening torque: 0.54 to 0.6 N•m
- The tolerance: ±0.2 mm

OMRON

[Mounting dimensions]

Product discontinuation Model FH-L550-[]	Recommendable replacement Model FH-L551-[]

Mounting the DIN rail
Mount DIN rail mounting bracket: FH-XDM-L,
to the four mount holes on the back of the Sensor Controller.

Screw for Fixing
Four, M4 x 10

FH-XDM-L

- Dimensions of DIN rail mounting bracket: FH-XDM-L

(Unit: mm)

- Recommended tightening torque: 0.54 to 0.6 N·m
- The tolerance: ±0.2 mm
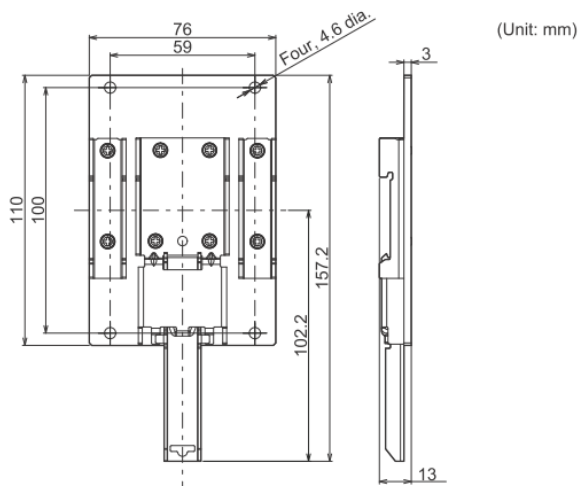
- When mounting the DIN rail, for improvement of heat dissipation, install the product in the following orientation only.

Clearance: 50 mm
Clearance: 30 mm
Clearance: 15 mm
Clearance: 30 mm
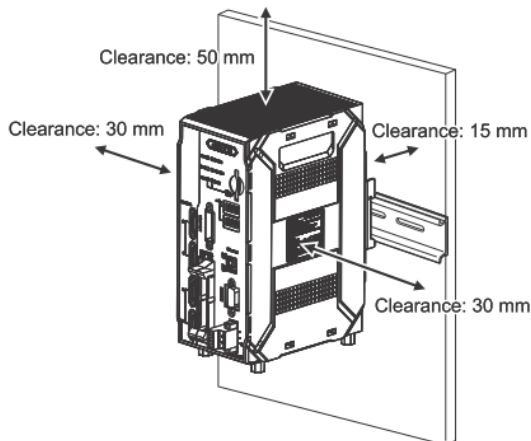
[Characteristics]

Item		Product discontinuation Model FH-L550-[]		Recommendable replacement Model FH-L551-[]	
Model		FH-L550	FH-L551	FH-L551	FH-L551-10
Controller Type		Box type			
Parallel IO polarity		NPN/PNP (common)			
Memory, Storage		4GB RAM、4GB ROM		4GB RAM、32GB ROM	
AI Processing Items					
AI Scratch Detect Filter		No			
AI Fine Matching		No		Yes[*1]	
Main Functions					
Operation Mode	Standard	Yes			
	Double Speed Multi-input	Yes			
	Non-stop adjustment mode	Yes			
	Multi-line random-trigger mode	No			
Parallel Processing		Yes			
Number of Connectable Camera		2	4	2	4
Supported Camera	FH-S series camera	FH-S series cameras except FH-SM21R/FH-SC21R are connectable.			
	FZ-S series camera	All of the FZ-S series cameras are connectable.			
Camera I/F		OMRON I/F			
Possible Number of Captured Images		Refer to About Number of Logging Images or About Max. Number of Loading Images during Multi-input in the Vision System FH/FHV series User's Manual (Cat.No. Z365).			
Possible Number of Logging Images to Sensor Controller					
Possible Number of Scenes		128			
Operating on UI	USB Mouse	Yes (wired USB and driver is unnecessary type)			
	Touch Panel	Yes (RS-232C/USB connection: FH-MT12)			
Setup		Create the processing flow using Flow editing.			
Language		Japanese, English, Simplified Chinese, Traditional Chinese, Korean, German, French, Spanish, Italian		Japanese, English, Simplified Chinese, Traditional Chinese, Korean, German, French, Spanish, Italian, Vietnamese, Polish	
External Interface					
Serial Communication		RS-232C × 1			
Ethernet Communication	Protocol	Non-procedure (TCP/UDP)			
	I/F	1000BASE-T × 1			
EtherNet/IP Communication		Yes (Target/Ethernet port)			
PROFINET Communication		• Yes (Slave/Ethernet port) • Conformance class A			
EtherCAT Communication		None			

Item		Product discontinuation Model FH-L550-[]		Recommendable replacement Model FH-L551-[]	
	Parallel I/O	High-speed input: 1 Normal speed: 9 High-speed output: 4 Normal speed: 23			
	Encoder Interface	None			
	Monitor Interface	DVI-I output (Analog RGB & DVI-D single link) x 1			
	USB I/F	USB2.0 host x 1 (BUS Power: Port 5 V/0.5 A) USB3.0 host x 1 (BUS Power: Port 5 V/0.9 A)			
	SD Card I/F	SDHC × 1			
Indicator Lamps					
	Main	POWER: Green ERROR: Red RUN: Green ACCESS: Yellow			
	Ethernet	NET RUN: Green LINK/ACT: Yellow			
	SD Card	SD POWER: Green SD BUSY: Yellow			
	EtherCAT	None			
Supply Voltage		20.4 VDC to 26.4 VDC			
Current consumption					
	• When connecting an intelligent compact digital camera **• When connecting the following lighting or lighting controllers without an external power supply** **- FLV-TCC1** **- FLV-TCC4** **- FLV-TCC3HB** **- FLV-TCC1EP** **- FL-TCC1** **• When connecting the following lighting or lighting controllers** **- FL-TCC1PS** **- FL-MD£MC**	2.7A max.	4.4A max.	2.7A max.	4.4A max.
	Other than above	1.5A max.	2.0A max.	1.5A max.	2.0A max.
Built-in FAN		None			
Usage Environment					
	Ambient temperature range	Operating: 0°C to +55°C Storage: -25 to +70°C (with no icing or condensation)			
	Ambient humidity range	Operating and Storage: 10 to 90% (with no condensation)			
	Ambient atmosphere	No corrosive gases			
	Vibration tolerance	5 to 8.4 Hz with 3.5 mm amplitude, 8.4 to 150 Hz, acceleration of 9.8 m/s^2 100 min each in X, Y, and Z directions (10 sweeps of 10 min each = 100 min total)			
	Shock resistance	Impact force: 150 m/s^2 Test direction: up and down/front and behind/left and right			

Item		Product discontinuation Model FH-L550-[]	Recommendable replacement Model FH-L551-[]
Noise immunity	**Fast Transient Burst**	• DC power: Direct infusion: 2 kV, Pulse rising: 5 ns, Pulse width: 50 ns, Burst continuation time: 15 ms/0.75 ms, Period: 300 ms, Application time: 1 min. • I/O line: Direct infusion: 1 kV, Pulse rising: 5 ns, Pulse width: 50 ns, Burst continuation time: 15 ms/0.75 ms, Period: 300 ms, Application time: 1 min.	
	Grounding	Class D grounding (100 Ω or less grounding resistance)[*2]	
External Features			
	Dimensions	200 mm x 80 mm x 130 mm	
	Weight	Approx. 1.5kg	
	Degree of protection	IEC60529 IP20	
	Case material	PC	

*1. Be sure to use the 0.3 megapixels camera or the 0.4 megapixels camera.
*2. Existing the third class grounding

[Operation ratings / Operation methods]

Product discontinuation Model FH-L550-[]	Recommendable replacement Model FH-L551-[]

Model FH-L550-[] / Model FH-L551-[]
    No major changes.
    For details on how to operate, please refer to the following manual.
    ・Vision System User's Manual (Z365)
    ・Vision System User's Manual (Communications Settings) (Z342)
    ・Vision System Hardware Setup Manual (Z366)
    ・Vision System Processing Item Function Reference Manual (Z341)
    ・Vision System Macro Customize Functions Programming Manual (Z367)	