

Product Discontinuation

Image Sensor
Digital CCD Cameras

FZ-S2M



Recommended Replacement

Image Sensor
Digital CMOS Cameras

FH-SMX02



[Final order entry date]

The end of August, 2027

The discontinuation date is subject to change due to the availability of parts and materials. Thank you for your understanding in advance.

[Date of The Last Shipping]

The end of November, 2027

[Caution on recommended replacement]

Please review and verify the installation environment and settings regarding the following points:

1. Changes to the Installation Environment (Pixel Size)

Due to the difference in pixel size, adjustment of the working distance (WD) will be necessary to match the resolution of the current field of view. Please review the available space at the installation location and the mounting fixtures.

2. Changes to Measurement Area Settings (Pixels/Resolution)

The effective pixel count and pixel size are different, resulting in a change in the image resolution. Please reconfigure the measurement area based on the current scene data.

3. Image Adjustment and Processing Time Verification (Performance/Functionality)

The camera's brightness and contrast characteristics are different.

Please adjust the image brightness (shutter speed, gain, lighting, etc.) to suit your environment. Also, please re-verify the overall "measurement processing time" of the system.

Note that using the replacement camera will result in a faster frame rate, which can improve measurement processing time.

Using the replacement camera requires a system software update for the controller unit (FH series). Only Ver6.73 and later are compatible.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
FH-SMX02	**	*	**	**	--	--	**

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
FZ-S2M	FH-SMX02

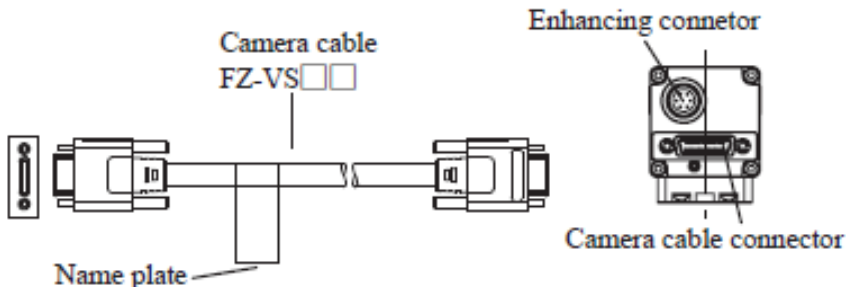
[Body color]

Product discontinuation Model FH-SM05R	Recommendable replacement Model FH-SM06R
Black 	Black 

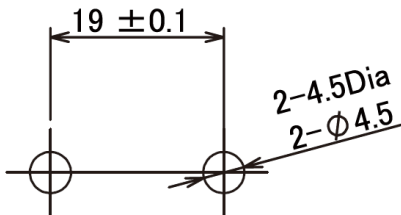
[Dimensions]

Product discontinuation Model FH-SM05R	Recommendable replacement Model FH-SM06R
D:53.8mm W:28mm  H:28mm	D:47.3mm W:28mm  H:28mm

[Wire connection]

Product discontinuation Model FZ-S2M	Recommendable replacement Model FH-SMX02
No change ● Connecting the camera amplifier and camera cable Using the Camera cable FZ-VS□□(sold separately), connect the connector on the back of the camera and the camera connector on Sensor Controller FH series. * The camera cable is polarized, so, make sure that the end bearing a name plate is connected to the Controller. 	

[Mounting dimensions]

Product discontinuation Model FZ-S2M	Recommendable replacement Model FH-SMX02
No change  MOUNTING SCREW HOLES 取付穴加工寸法	

[Characteristics]
○General specifications

Item	Product discontinuation Model FZ-S2M	Recommendable replacement Model FH-SMX02
Power consumption	4.0 W max. (12 VDC)	2.4 W max. (13 VDC)
Vibration resistance	10 to 150Hz: half-amplitude: 0.35mm:(maximum acceleration: 50m/s ²), 10 times for 8 minutes each in 3 directions	
Shock resistance	Shock resistance 150m/s ² , 3 times each in 6 directions	
Ambient Temperature	Operating: 0 to 40 °C Storage: -25 to 65 °C with no icing nor condensation	
Ambient humidity	Operating and storage: 35% to 85% with no condensation	
Ambient environment	No corrosive gases	
Degree of protection	IEC60529 IP20	IEC60529 IP40
Materials	Case: Aluminum alloy Base: PC/ABS	Case: Aluminum alloy Base: PC/ABS
Weight	76g (including base)	48g (including base)
Cable length	Standard mode : 15m max *Only Standard mode	High-speed mode : 5m max Standard mode : 15m max

○Performance specifications

Item	Product discontinuation Model FZ-S2M	Recommendable replacement Model FH-SMX02
Image element	1/1.8 inch CMOS	1/1.7 inch CMOS
Effective pixels	1600(H) × 1200(V)	
Pixel size	4.4(μm) × 4.4(μm)	4.5(μm) × 4.5(μm)
Shutter type	Global shutter	
Synchronization	Internal Sync.	
Frame rate	Standard mode : 30 fps *Only Standard mode	High-speed mode : 90.3 fps Standard mode : 52.9fps
Number of lines to be read	12 to 1200 lines (2 lines each)	8 to 1200 lines (8 lines each)
Gain	5.1 ~ 41.8dB	0 ~ 42dB
Shutter speed	20μs ~ 100,000μs	1μs ~ 100,000μs
Lens mounting	C mount (Recommended: 3Z4S-LE SV-H series)	

[Operation ratings]

Item	Product discontinuation Model FZ-S2M	Recommendable replacement Model FH-SMX02
Reverse conversion	Without function	With function
Binning setting	With function	Without function

[Operation methods]

Product discontinuation Model FZ-S2M	Recommendable replacement Model FH-SMX02
No change For details on the operation method, refer to the following manual. •Vision System Hardware Setup Manual (Z366) •Vision System User's Manual (Z365) •Vision System Processing Item Function Reference Manual (Z341)	

Specifications and prices in this product news are as of the issue date and are subject to change without notice.
 Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.
 The information on the recommended substitute products from other companies is what our company is aware of as of the issuance of this notice. Regarding the end of production timing for the recommended alternative product, the possibility of continuing supply, the specifications, compatibility, and others, as well as other details, please inquire with your business partner and make your own decision at your company on whether to adopt the recommended alternative product.