

Product Discontinuation

Multi Code Reader

FQ-CR1□050F-M series

FQ-CR1□100F-M series

FQ-CR1□100N-M series

FQ-CR1□010F-M series

2D Code Reader

FQ-CR2□050F-M series

FQ-CR2□100F-M series

FQ-CR2□100N-M series

FQ-CR2□010F-M series

Recommended Replacement

Autofocus Multicode Reader and In-Line Verifier

VHV5-F000L023M-SRX

VHV5-F000M023M-SRX

VHV5-F000L023M-SRX

No recommended replacement

Autofocus Multicode Reader and In-Line Verifier

VHV5-F000L023M-SRX

VHV5-F000M023M-SRX

VHV5-F000L023M-SRX

No recommended replacement

[Final order entry date]

The end of August, 2027

[Date of The Last Shipping]

The end of November, 2027

[Scheduled date of maintenance close]

The end of August, 2028

[Caution on recommended replacement]

Although the Recommended Replacement offers superior performance compared to the Product Discontinuation, its external dimensions and wiring connection specifications differ; therefore, please verify the impact on your specific operating environment.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Characteristics
VHV5-F000L023M-SRX	*	--	--	--
VHV5-F000M023M-SRX	*	--	--	--

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
FQ-CR10010F-M	No recommended replacement
FQ-CR10050F-M	VHV5-F000L023M-SRX
FQ-CR10100F-M	VHV5-F000M023M-SRX
FQ-CR10100N-M	VHV5-F000L023M-SRX
FQ-CR15010F-M	No recommended replacement
FQ-CR15050F-M	VHV5-F000L023M-SRX
FQ-CR15100F-M	VHV5-F000M023M-SRX
FQ-CR15100N-M	VHV5-F000L023M-SRX
FQ-CR20010F-M	No recommended replacement
FQ-CR20050F-M	VHV5-F000L023M-SRX
FQ-CR20100F-M	VHV5-F000M023M-SRX
FQ-CR20100N-M	VHV5-F000L023M-SRX
FQ-CR25010F-M	No recommended replacement
FQ-CR25050F-M	VHV5-F000L023M-SRX
FQ-CR25100F-M	VHV5-F000M023M-SRX
FQ-CR25100N-M	VHV5-F000L023M-SRX

[Body color]

Product discontinuation Model FQ-CR□□□□□-M	Recommendable replacement Model VHV5-F000□023M-SRX
FQ-CR□□050F-M Black and White. 	VHV5-F000L023M-SRX Black and Silver. 
FQ-CR□□100F-M, FQ-CR□□100N-M Black and White. 	VHV5-F000M023M-SRX, VHV5-F000L023M-SRX Black and Silver. 

[Dimensions]

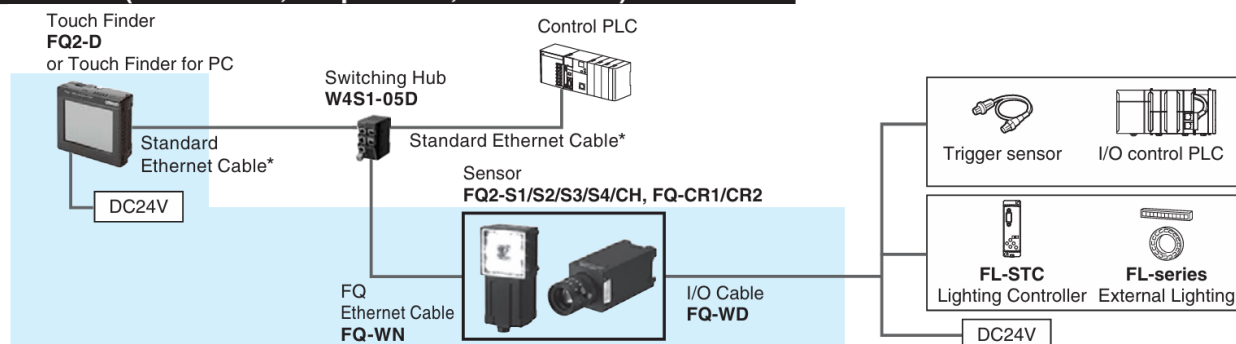
Product discontinuation Model FQ-CR□□□□□□-M	Recommendable replacement Model VHV5-F000□023M-SRX
FQ-CR□□050F-M The mounting bracket FQ-XL (included with Sensor) Optical axis 46 45 67 11 38 8 (18) 90 32 9 44 4-M4 Depth: 6 (108) (25) 20 1/4-20UNC Depth: 6 20 38 42 Mounting hole dimensions Two, 4.5 dia. 20±0.1 Tightening torque: 1.2 N-m	VHV5-F000L023M-SRX Optical axis 46 45 67 11 38 8 (18) 90 32 9 44 4-M4 Depth: 6 (108) (25) 20 1/4-20UNC Depth: 6 20 38 42 Mounting hole dimensions Two, 4.5 dia. 20±0.1 Tightening torque: 1.2 N-m
FQ-CR□□100F-M, FQ-CR□□100N-M Optical axis 46 45 67 11 38 8 (18) 90 32 9 44 4-M4 Depth: 6 (108) (25) 20 1/4-20UNC Depth: 6 20 38 42 Mounting hole dimensions Two, 4.5 dia. 20±0.1 Tightening torque: 1.2 N-m	VHV5-F000M023M-SRX, VHV5-F000L023M-SRX Optical axis 46 45 67 11 38 8 (18) 90 32 9 44 4-M4 Depth: 6 (108) (25) 20 1/4-20UNC Depth: 6 20 38 42 Mounting hole dimensions Two, 4.5 dia. 20±0.1 Tightening torque: 1.2 N-m

[Wire connection]

Product discontinuation
Model FQ-CR□□□□□-M

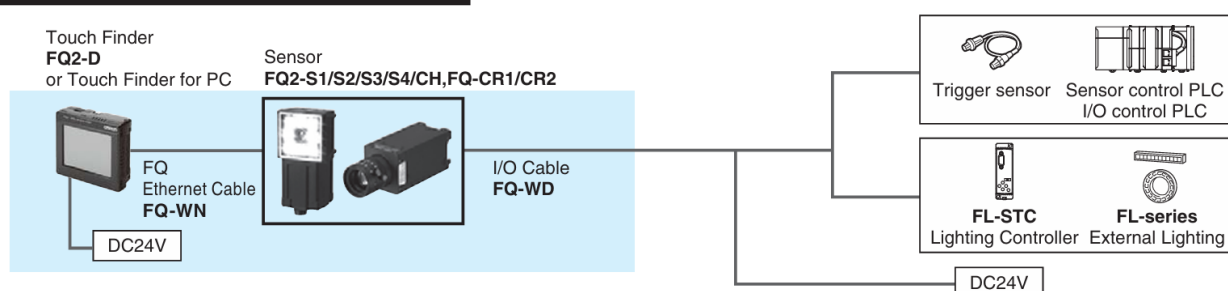
System Configuration

Ethernet (EtherNet/IP, No-protocol, or PLC Link) Connection



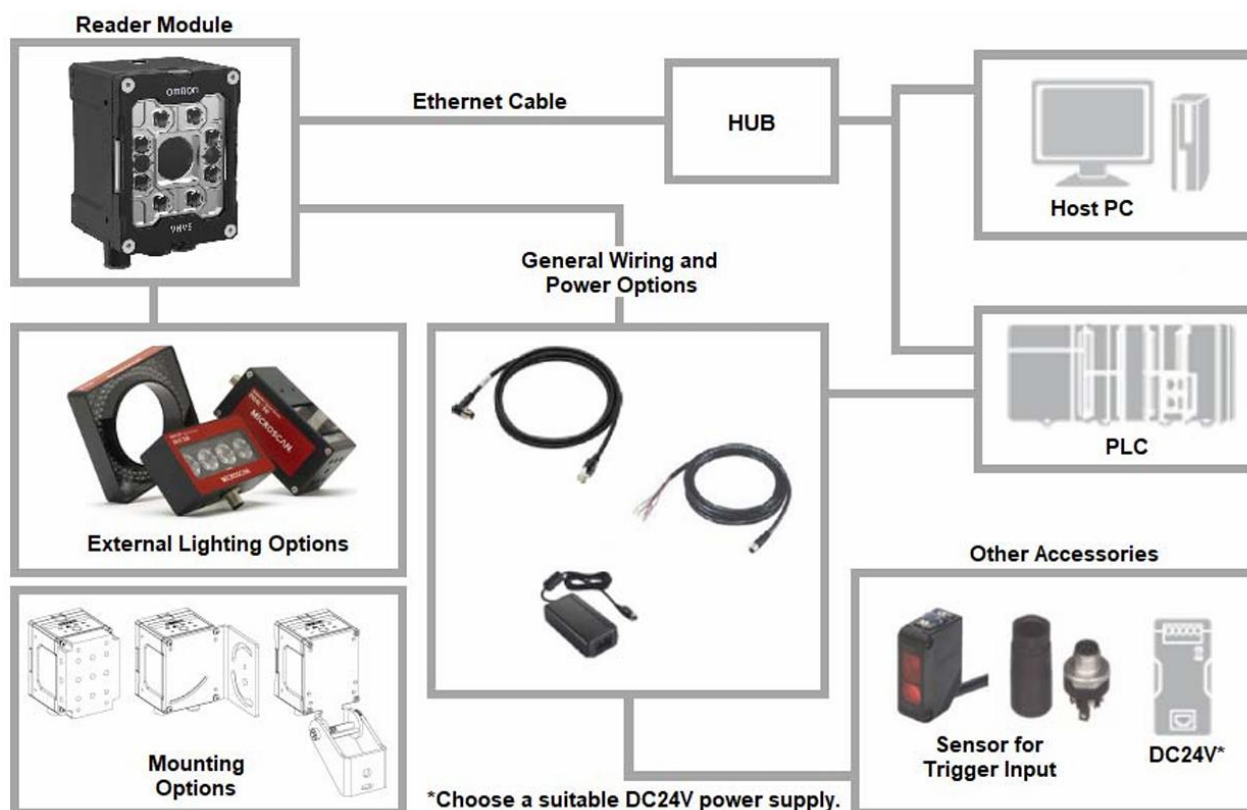
* RJ-45 of the FCC regulations

Parallel Interface Connection



Recommendable replacement
Model VHV5-F000□023M-SRX

System Configuration



*Choose a suitable DC24V power supply.

[Characteristics]

Item	Product discontinuation Model FQ-CR1□□□□□-M	Recommendable replacement Model VHV5-F000□023M-SRX
Image elements	Monochrome CMOS	Monochrome CMOS
Processing resolution	752(H) × 480(V)	1920(H) × 1200(V)
Shutter	1/250~1/30,000s	16 μs~300,000 μs
Lighting	White LED	8 high-power LEDs: White or Red
Inspection items	【2D Code】 •Data Matrix (ECC200) •QR Code •Micro QR Code •PDF417 •MicroPDF417 •GS1-DataMatrix	【2D Symbolologies & Stacked Symbolologies】 •Data Matrix (ECC 0-200) •QR Code •Micro QR Code •PDF417 •MicroPDF417 •Aztec Code •DotCode
	【Bar Code】 •Code39 •Code128/GS1-128 •Code 93 •Pharmacode •Codabar (NW-7) •JAN/EAN/UPC •ITF (Interleaved 2 of 5) •GS1 DataBar* (Truncated, Stacked, Omni-directional, Stacked Omnidirectional, Limited, Expanded, Expanded Stacked) •GS1-128 •Composite Code (CC-A, CC-B, CC-C)	【1D Symbolologies & Stacked Symbolologies】 •Code 39 •Code 128 •Code 93 •Pharmacode •Codabar •BC412 •Interleaved 2 of 5 •GS1 Databar (Composite and Stacked) •UPC/EAN •PLANET •POSTNET •Japanese Post •Australian Post •Royal Mail •Intelligent Mail •KIX
Ethernet specifications	100Base-TX/10Base-T	1000BASE-T
Input Signals	7 signals •Single measurement input (TRIG) •Control command input (IN0 to IN5)	3 Inputs: IN1 (Trigger), IN2 (Unused), IN3 (Unused). Bi-directional, Optoisolated, 4.5-28V-rated (10 mA @ 28 VDC).
Output Signals	3 signals •Control output (BUSY) •Overall judgement output (OR) •Error output (ERROR) Note: The three output signals can be allocated for the judgements of individual inspection items.	3 Fully Configurable Outputs: OUT1, OUT2, OUT3. Bi-directional, Optoisolated, 3-28V rated, (ICE < 100 mA at 24 VDC, current limited by user).
Power supply voltage	21.6 to 26.4 VDC (including ripple)	Power over Ethernet (IEEE 802.3at) / 24 VDC +/- 10%
Current consumption	2.4 A max.	2.1 A max. (when using external DC24V power supply)

[Characteristics]

Item	Product discontinuation Model FQ-CR1□□□□□-M	Recommendable replacement Model VHV5-F000□023M-SRX
Ambient temperature range	• Operating: 0 to 50°C • Storage: -25 to 65°C (with no icing or condensation)	• Operating: 0 to 45° C • Storage: -25 to 65° C (with no icing or condensation)
Ambient humidity range	Operating and storage: 35% to 85% (with no condensation)	Operating and Storage: 25% to 85%
Ambient atmosphere	No corrosive gas	No Corrosive Gases
Vibration resistance (destruction)	• Oscillation Frequency: 10 to 150 Hz • single amplitude: 0.35 mm • X/Y/Z directions • Sweep Time: 8 min each • Sweep Count: 10 times	• Oscillation Frequency: 10 to 150 Hz; • Half Amplitude: 0.35 mm • Vibration Direction: X/Y/Z • Sweep Time: 8 Minutes/Count; • Sweep Count: 10 Times
Shock resistance (destruction)	• Impact Force: 150 m/s² • Test Direction: 3 times each in 6 direction (up, down, right, left, forward, and backward)	• Impact Force: 150 m/s² • Test Direction: 6 Directions, 3 Times Each (Up / Down, Front / Behind, Left / Right)
Materials	• Sensor: PBT, PC, SUS • Mounting Bracket: PBT • Polarizing Filter Attachment: PBT, PC • Ethernet connector: Oil-resistance vinyl compound • I/O connector: Lead-free heat-resistant PVC	• Case: Aluminum, black anodized • Reading Window: Acrylic
Weight	• Standard View: Approx. 160 g • Wide View: Approx. 150 g	372 g
Accessories included with sensor	• Instruction Manual • CE Compliance Sheet • Mounting Bracket (FQ-XL) x1 • Polarizing Filter Attachment (FQ-XF1) x1 • Member Registration Sheet	• ReadMeFirst • CE Compliance Sheet

[Characteristics]

Item	Product discontinuation Model FQ-CR2□□□□□-M	Recommendable replacement Model VHV5-F000□023M-SRX
Image elements	Monochrome CMOS	Monochrome CMOS
Processing resolution	752(H) × 480(V)	1920(H) × 1200(V)
Shutter	1/250~1/32258s	16 μs~300,000 μs
Inspection items	【2D Code】 •Data Matrix •QR Code •ECC200	【2D Symbolologies & Stacked Symbolologies】 •Data Matrix (ECC 0-200) •QR Code •Micro QR Code •PDF417 •MicroPDF417 •Aztec Code •DotCode
	—	【1D Symbolologies & Stacked Symbolologies】 •Code 39 •Code 128 •Code 93 •Pharmacode •Codabar •BC412 •Interleaved 2 of 5 •GS1 Databar (Composite and Stacked) •UPC/EAN •PLANET •POSTNET •Japanese Post •Australian Post •Royal Mail •Intelligent Mail •KIX
Ethernet specifications	100Base-TX/10Base-T	1000BASE-T
Input Signals	7 signals •Single measurement input (TRIG) •Control command input (IN0 to IN5)	3 Inputs: IN1 (Trigger), IN2 (Unused), IN3 (Unused). Bi-directional, Optoisolated, 4.5-28V-rated (10 mA @ 28 VDC).
Output Signals	3 signals •Control output (BUSY) •Overall judgement output (OR) •Error output (ERROR) Note: The three output signals can be allocated for the judgements of individual inspection items.	3 Fully Configurable Outputs: OUT1, OUT2, OUT3. Bi-directional, Optoisolated, 3-28V rated, (ICE < 100 mA at 24 VDC, current limited by user).
Power supply voltage	21.6 to 26.4 VDC (including ripple)	Power over Ethernet (IEEE 802.3at) / 24 VDC +/- 10%
Current consumption	2.4 A max.	2.1 A max. (when using external DC24V power supply)

[Characteristics]

Item	Product discontinuation Model FQ-CR2□□□□□-M	Recommendable replacement Model VHV5-F000□023M-SRX
Ambient temperature range	• Operating: 0 to 50°C • Storage: -25 to 65°C (with no icing or condensation)	• Operating: 0 to 45° C • Storage: -25 to 65° C (with no icing or condensation)
Ambient humidity range	Operating and storage: 35% to 85% (with no condensation)	Operating and Storage: 25% to 85%
Ambient atmosphere	No corrosive gas	No Corrosive Gases
Vibration resistance (destruction)	• Oscillation Frequency: 10 to 150 Hz • single amplitude: 0.35 mm • X/Y/Z directions • Sweep Time: 8 min each • Sweep Count: 10 times	• Oscillation Frequency: 10 to 150 Hz; • Half Amplitude: 0.35 mm • Vibration Direction: X/Y/Z • Sweep Time: 8 Minutes/Count; • Sweep Count: 10 Times
Shock resistance (destruction)	• Impact Force: 150 m/s² • Test Direction: 3 times each in 6 direction (up, down, right, left, forward, and backward)	• Impact Force: 150 m/s² • Test Direction: 6 Directions, 3 Times Each (Up / Down, Front / Behind, Left / Right)
Materials	• Sensor: PBT, PC, SUS • Mounting Bracket: PBT • Polarizing Filter Attachment: PBT, PC • Ethernet connector: Oil-resistance vinyl compound • I/O connector: Lead-free heat-resistant PVC	• Case: Aluminum, black anodized • Reading Window: Acrylic
Weight	• Standard View: Approx. 160 g • Wide View: Approx. 150 g	372 g
Accessories included with sensor	• Instruction Manual • CE Compliance Sheet • Mounting Bracket (FQ-XL) x1 • Polarizing Filter Attachment (FQ-XF1) x1 • Member Registration Sheet	• ReadMeFirst • CE Compliance Sheet

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.