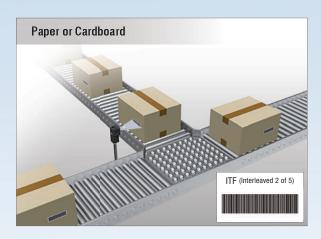


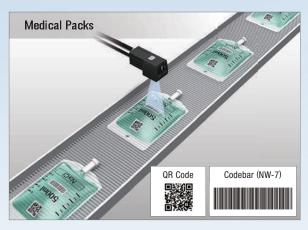
» Read from everything from paper and labels to metal, PCBs, and glass for a wide range of applications.

Solve a variety off different applications with one product series

Read Codes Printed on Paper or Labels











Reads 14 Different Codes

FQ CR1

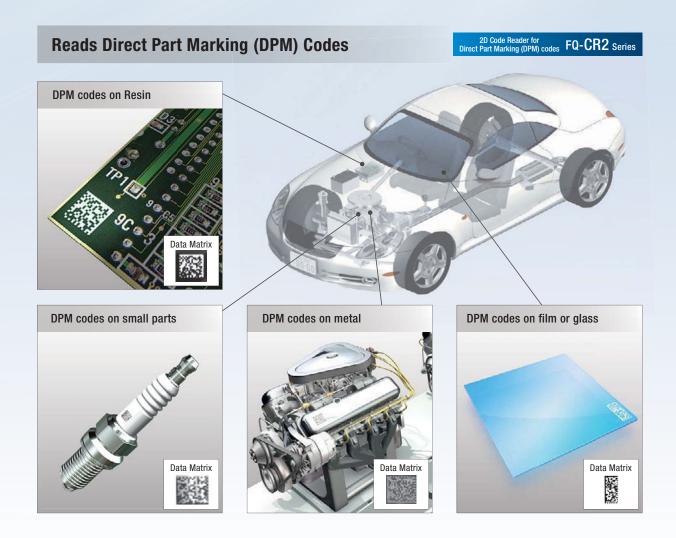
Many different codes are used for different applications. And for some products, different codes are printed together. The FQ-CR1 can read many different codes without requiring any changes to its settings.

Barcodes: Reads 9	JAN/EAN/UPC ITF (Interleaved 2 of 5)	Code39 Code93	Codabar (NW-7) Code128 / GS1-128
different codes.	GS1-DataBar	GS1-128 Composite Code	Pharmacode
2D codes: Reads 5	Data Matrix	QR Code	Micro QR Code
different codes.	PDF417	Micro PDF417	

There are many instances when different barcode or 2D code systems are used together in the same manufacturing process. Code printing quality can also vary due to imperfect printing or low contrast.

The FQ-CR Series handles these and many other conditions.

The FQ-CR Series can be easily introduced without using different code readers and operating procedures for each of the different processes.



Easily reads difficult codes

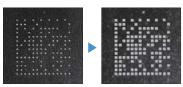
FQ-CR2

Just read the code and register it, and then let the following functions automatically tune the settings.

Depending on the conditions of the code, the automatic retry and code error correction functions let, essentially anyone, easily adjust the settings.

Filter function

Three stages of filtering are automatically selected for the read image from Smooth, Dilate, Erosion, and Median filtering.



Before Dilation After Dilation

Retry function

You can retry the settings until reading is successful while automatically changing the exposure time and other reading parameters.



After Retry

Before Retry

Code Error Correction

Code omissions and errors are automatically corrected when the code is read.



Before Processing



After Processing

OMRON's Unique Algorithm Provides Superior Reading Ability for Direct Part Marking codes



Removal of Printing Irregularities or Noise

Filter function

You can apply up to three of the four unique filters developed by OMRON in the desired order to remove printing irregularities and noise, in order to achieve a stable reading.

Types of Filtering

Smooth	Smooths the image.	Erosion	For white codes, reduces the cell size. Effective for reading separated dot codes.
Dilate	For white codes, increases the cell size. Effective for reading codes with cell spreading.	Median	Removes noise.

Combining Filtering

Erosion and dilation can be combined to connect dots without changing the dot thickness.











Reading

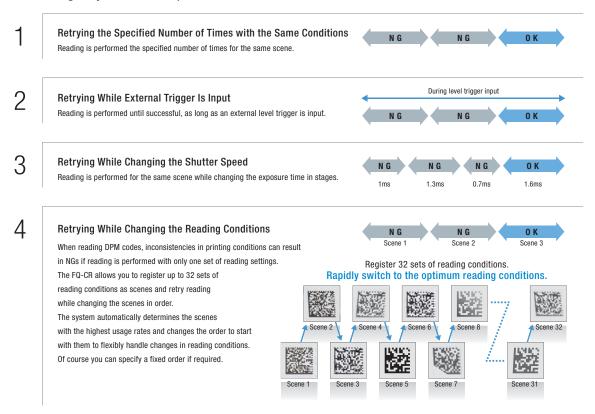


Automatic Parameter Adjustment Until Reading is Successful

Retry function

Code Readers must be able to read codes even for poor printing conditions. You can automatically retry reading while changing the exposure time and other reading conditions, even for changing workpieces or environments, to enable a stable reading.

The following retry functions are provided.



Easy Confirmation of Code Quality

Code Error Correction Position Display

Red circles are displayed on cells for which the code was corrected on the display. This clearly shows where the code quality was poor.



FQ-CR2

Stable Reading Functions Packed into a Compact Body

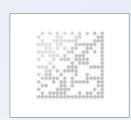


Detection and Connection

Reads Codes Even with Low Contrast

High-power LEDs

The wider the field of view, the more difficult it is to maintain consistent lighting within the field, causing errors in reading. The built-in LEDs of the FQ-CR Series use a unique OMRON DR optical system for effective light usage to maintain consistent lighting within the field of vision at a brightness that is four times that of previous models.







High-power Lighting

Cuts Light Interference

HDR Function

The HDR (high dynamic range) function minimizes the influence of changes in lighting conditions and light reflection. This enables stable inspections even for materials that are difficult to light evenly, such as metal parts or glossy films, or in locations subject to external light interference.



Halation



Stable Detection for Metal Surfaces Subject to Gloss and Inconsistent Lighting

Cuts Specular Reflections

Polarizing Filter

A polarizing filter is included to cut specular reflection from glossy surfaces. This enables stable code reading even for metallic or other glossy surfaces.



Without Polarizing Filter



With Polarizing Filter

Communications with Host Devices

Ethernet Connection

The compact body also provides an Ethernet connector so that you can transfer read data and images via Ethernet. Smoothly transfer data to PLCs, computers, or other host devices.



FQ-CR2

Essentially, Simple Enough for Anyone to Set Up

Setup is as easy as displaying codes on the monitor and registering settings with a simple procedure.

Then, the FQ-CR will automatically tune the settings to achieve the optimum conditions.

You can automatically tune all of these reading conditions just by making the basic settings.

Read a code.



Optimum Tuning in Three Steps





Two Set-up Tools

Use the convenient Touch Finder for on-site settings and control panel installations, or use a set-up tool on a computer.



TouchFinder for PC (Free)

After purchasing the Code Reader,
you can download the TouchFinder for PC free from the member's website.

Set-up and Adjustment



Menu Displays in Nine Languages

The nine language support for menus means that you can easily introduce systems into factory sites in other countries.

In addition, you can easily change the language on a menu.

English German
Japanese French
Traditional Chinese Italian
Simplified Chinese Spanish
Korean



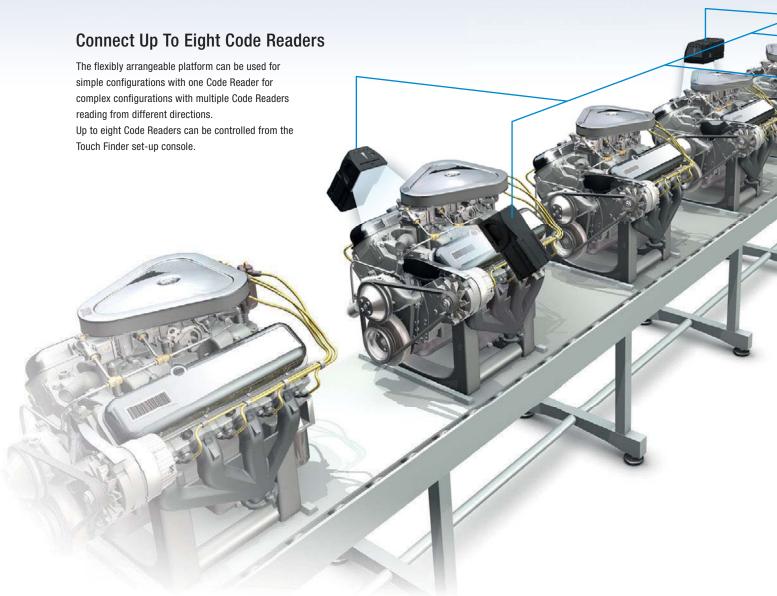
Operation Navigation

Navigation menus for operating procedures from image adjustment through to testing and starting operation are provided so that even beginners can operate the Code Reader.



FQ-CR2

Flexible System Configuration



Code Quality Management

The FQ-CR2 contains state-of-the-art algorithms that enable the reading of codes even with poor reading quality. However, even if the code quality continues to deteriorate for some reason, auto-correction and retrying are used to enable reading, making it impossible to tell where quality was lost simply from the OK/NG reading information. Here, you can use the cell recognition rate information. The cell recognition rate changes with code printing quality, position inconsistency, installation conditions, and noise. You can log the cell recognition rate and image together to manage quality trends. The logging of recent results is useful for testing when commissioning a line. Run through some sample products and log the cell recognition rate. You can then display the results in a time-based graph to see how much leeway there is in reading performance.

* For the FQ-CR1, the number of detected characters is logged instead of the cell recognition rate.

File Logging



SD Card

Cell recognition rate
Up to 10 million measurement
values or more
(for a 4-GB SD card)
Up to 10,000 images or more
(for a 4-GB SD card)

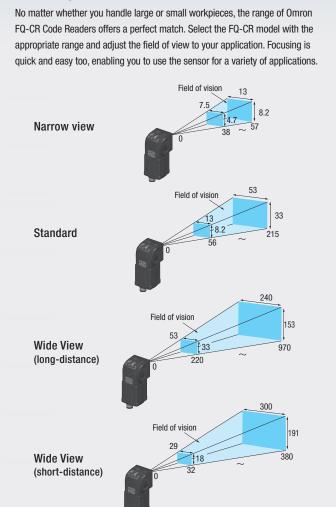
Logging of Recent Results



Displays the most recent 1,000 cell recognition rate in graph form.

Commissioning and Operation

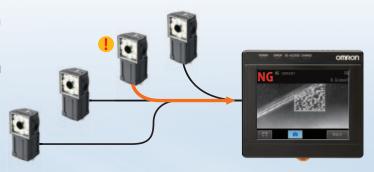




Match your field of view

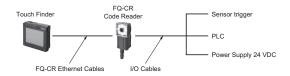
Automatic Notification of NGs

If you leave the Touch Finder installed on-site, the recent NG sensor display is very useful. Even if you are monitoring more than one Code Reader with the Touch Finder, the display automatically changes to the Code Reader where an NG occurred so that you can quickly confirm conditions.

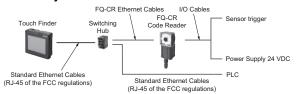


System Configuration

Connections for One Code Reader Control by parallel input/output

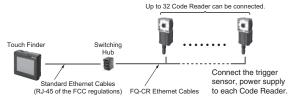


Control by Ethernet

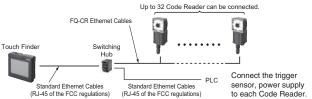


Connections for Multiple Code Reader

Control by parallel input/output



Control by Ethernet

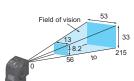


Note: If you register as a member after purchasing a Code Reader, you can download the free set-up software TouchFinder for PC that runs on a PC and can be used in place of the Touch Finder. Refer to the member registration sheet for details.

Ordering Information

Code Reader

Narrow View



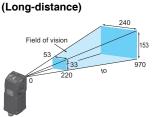
Standard

	2D Code Reader	Multi Code Reader
NPN	FQ-CR20010F-M	FQ-CR10010F-M
PNP	FQ-CR25010F-M	FQ-CR15010F-M

	2D Code Reader	Multi Code Reader
NPN	FQ-CR20050F-M	FQ-CR10050F-M

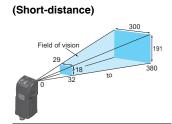
PNP FQ-CR25050F-M FQ-CR15050F-M

Wide View



	2D Code Reader	Multi Code Reader
NPN	FQ-CR20100F-M	FQ-CR10100F-M
PNP	FQ-CR25100F-M	FQ-CR15100F-M

(Unit: mm)



	2D Code Reader	Multi Code Reader
	FQ-CR20100N-M	
PNP	FQ-CR25100N-M	FQ-CR15100N-M

Note: Tolerance (field of vision): ±10% max.

Touch Finder

Туре	Model
DC power supply	FQ2-D30
AC/DC/battery	FQ2-D31 (See note.)

Note: AC Adapter and Battery are sold separately.

Cables (Robot cable)

Туре	Cable length	Model
FQ Ethernet Cables	2 m	FQ-WN002
(connect Code Reader to Touch	10 m	FQ-WN010
Finder, Code Reader to PC)	20 m	FQ-WN020
	2 m	FQ-WD002
I/O Cables	10 m	FQ-WD010
	20 m	FQ-WD020

Industrial Switching Hubs (Recommended)

Appearance	Number of ports	Failure detection	Current consumption	Model
645	3	None	0.22 A	W4S1-03B
20	5	None	0.22 A	W4S1-05B
3.5	3	Supported	0.22 A	W4S1-05C

Accessories

Application	Appearance	Name	Model
For Code Reader		Mounting Bracket (enclosed with Code Reader)	FQ-XL
		Mounting Bracket for highprecision sensing *1 (sold separately)	FQ-XL2
		Polarizing Filter Attachment (enclosed with Code Reader)	FQ-XF1
		Panel Mounting Adapter	FQ-XPM
	108	AC Adapter (for models for DC/AC/Battery)	FQ-AC1
For Touch		Battery *2 (for models for DC/AC/Battery)	FQ-BAT1
Finder	/	Touch Pen (enclosed with Touch Finder)	FQ-XT
		Strap	FQ-XH
	208	SD Card (2 GB)	HMC-SD291

- *1. A mounting Bracket with improved resistance to vibrations and other external stresses that cause displacement of the optical axis and field of view.
- *2. The Battery uses a lithium ion secondary battery. Confirm any applicable laws and regulations in the destination country if you export the Battery.

Ratings and Performance

Code Reader

Item	Туре	2D Code Reader	Multi Code Reader				
NPN NPN		FQ-CR20□□□-M	FQ-CR10□□□-M				
Model	PNP	FQ-CR25□□□-M	FQ-CR15□□□-M				
Field of vision		Refer to the table below.	·				
Installation dist	ance						
Minimum resolu	ution	FQ-CR2□010F-M/-CR1□010F-M: 0.040 mm FQ-CFFQ-CR2□100F-M/-CR1□100F-M: 0.282 mm FQ-CFFQ-CFFQ-CFFQ-CFFQ-CFFQ-CFFQ-CFFQ-C					
			2D Code (DataMatrix (EC200), QR Code, MicroQR Code, PDF417, MicroPDF417, GS1-DataMatrix)				
Main functions	Code	2D Code (DataMatrix (EC200), QR Code)	Bar code (JAN/EAN/UPC, Code39, Codabar (NW-7), ITF (Interleaved 2 of 5), Code 93, Code128/GS1-128, GS1 DataBar* (Truncated, Stacked, Omni-directional, Stacked Omni-directional, Limited, Expanded and Expanded Stacked), Pharmacode and GS1-128 Composite Code (CC-A, CC-B, CC-C))				
	Image filter	Filter function (Smooth, Dilate, Erosion,Median), Retry function, Code Error Correction Position Display	None				
	Verification function	None	Supported				
	Number of simultaneous inspections	32					
	Number of registered scenes	32					
	Image filter	High dynamic range (HDR), polarizing filter (attachm	nent)				
	Image elements	1/3-inch monochrome CMOS	,				
Image input	Shutter	1/250 to 1/32,258 s	1/250 to 1/30.000 s				
	Processing resolution	752 × 480					
	Lighting method	Pulse					
Lighting	Lighting color	White					
Lighting	LED class						
	Measurement data	. , , , ,	Risk Group 2 (IEC62471)				
Data logging	_	In Code Reader:1,000 items (If a Touch Finder is used, results can be saved up to the capacity of an SD card.) In Code Reader:20 images (If a Touch Finder is used, images can be saved up to the capacity of an SD card.)					
Magaziramant ti	Images	• '	i, illages can be saved up to the capacity of an 3D card.)				
Measurement tr	Input signals	External trigger (single or continuous) 7 signals • Single measurement input (TRIG)					
I/O specifications	Output signals	Control command inputs (IN0 to IN5) 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.					
	Ethernet specification	Numerical outputs and control commands are support 100BASE-TX/10BASE-T					
	Connection method	Special connector cables • Power supply and I/O: 1 cable (FQ-WD□□ • Touch Finder and computer: 1 cable (FQ-WN□□					
Ratings	Power supply voltage	21.6 to 26.4 VDC (including ripple)					
naunys	Current consumption	2.4 A max.					
Environmental	Ambient temperature range	Operating: 0 to 50°C Storage: –25 to 65°C (with no icing or condensation)					
immunity	Ambient humidity range	Operating and storage: 35% to 85% (with no conder	nsation)				
•	Ambient atmosphere	No corrosive gas					
	Degree of protection	IEC 60529 IP67 (Except when Polarizing Filter Attack	chment is mounted.)				
Materials		Code Reader: PBT, PC, SUS Mounting Bracket: PBT Polarizing Filter Attachment: PBT, PC Ethernet connector: Oil-resistance vinyl cor I/O connector: Lead-free heat-resistan					
Accessories		Mounting Bracket (FQ-XL) (1) Polarizing Filter Attachment (FQ-XF1) (1) Instruction Manual	Member registration sheet				

2D Code	Reader	Multi Cod	le Reader	Field of view		Weight
NPN	PNP	NPN	PNP	(See note) (Horizontal × Vertical)	Installation distance	
FQ-CR20010F-M	FQ-CR25010F-M	FQ-CR10010F-M	FQ-CR15010F-M	7.5×4.7 to 13×8.2 mm	38 to 57 mm	
FQ-CR20050F-M	FQ-CR25050F-M	FQ-CR10050F-M	FQ-CR15050F-M	13 × 8.2 to 53 × 33 mm	56 to 215 mm	200 g max.
FQ-CR20100F-M	FQ-CR25100F-M	FQ-CR10100F-M	FQ-CR15100F-M	53 × 33 to 240 × 153 mm	Long-distance model: 220 to 970 mm	200 y Illax.
FQ-CR20100N-M	FQ-CR25100N-M	FQ-CR10100N-M	FQ-CR15100N-M	29 × 18 to 300 × 191 mm	Short-distance model: 32 to 380 mm	

Note: Tolerance: ±10% max.

Touch Finder

		Туре	Model with DC power supply	Model with AC/DC/battery power supply	
Item		Model	FQ2-D30	FQ2-D31	
Number of conn	nectable Sen	sor	Number of sensors that can be recognized (switcher monitor: 8 max.	d): 32 max. number or sensor that can displayed on	
	Types of measurement displays		Last result display, Last NG display, trend monitor, histograms		
Main functions	Types of display images		Through, frozen, zoom-in, and zoom-out images		
	Data logging		Measurement results, measured images		
	Menu language		English, German, French, Italian, Spanish, Traditional Chinese, Simplified Chinese, Korean, Japanese		
		Display device	3.5-inch TFT color LCD		
	LCD	Pixels	320 × 240		
Indications		Display colors	16.7 million		
indications		Life expectancy *1	50,000 hours at 25°C		
	Backlight	Brightness adjustment	Provided		
		Screen saver	Provided		
Operation	Touch	Method	Resistance film		
interface	screen	Life expectancy *2	1,000,000 touch operations		
External Ethernet 100BASE-TX/10BASE-T			100BASE-TX/10BASE-T		
interface	SD card		SDHC-compliant, Class 4 or higher recommended		
Ratings	Power supply voltage		DC power connection:21.6 to 26.4 VDC (including ripple)	DC power connection: 21.6 to 26.4 VDC (including ripple) AC adapter (manufactured by Sino-American Japan Co., Ltd) connection: 100 to 240 VAC, 50/60 Hz Battery connection: FQ-BAT1 Battery (1cell, 3.7 V)	
	Continuou	s operation on Battery *3		1.5 h	
	Power con	sumption	DC power connection: 0.2 A max.	DC power connection: 0.2 A max. Charging battery: 0.4 A max.	
Environmental immunity	Ambient temperature range		Operating: 0 to 50°C Storage: -25 to 65°C (with no icing or condensation)	Operating: 0 to 50°C when mounted to DIN Track or panel Operation on Battery: 0 to 40°C Storage: -25 to 65°C (with no icing or condensation)	
	Ambient humidity range		Operating and storage: 35% to 85% (with no condensation)		
	Ambient atmosphere		No corrosive gas		
	Vibration resistance (destruction)		10 to 150 Hz, single amplitude: 0.35 mm, X/Y/Z directions 8 min each, 10 times		
	Shock resistance (destruction)		150 m/s ² 3 times each in 6 direction (up, down, right, left, forward, and backward)		
	Degree of protection		IEC 60529 IP20 (when SD card cover, connector cap, or harness is attached)		
Weight			Approx. 270 g (without Battery and hand strap attached)		
Materials					
Materials			Case: ABS		

This is a guideline for the time required for the brightness to diminish to half the initial brightness at room temperature and humidity. The life of the backlight is greatly affected by the ambient temperature and humidity and will be shorter at lower or higher temperatures.

This value is only a guideline. No guarantee is implied. The value will be affected by operating conditions.

This value is only a guideline. No guarantee is implied. The value will be affected by the operating environment and operating conditions.

Battery Specifications

Item	Model	FQ-BAT1
Battery type		Secondary lithium ion battery
Nominal capacity		1,800 mAh
Rated voltage		3.7 V
Ambient temperature range		Operating: 0 to 40°C Storage: –25 to 65°C (with no icing or condensation)
Ambient humidity range		Operating and storage: 35% to 85% (with no condensation)
Charging method		Charged in Touch Finder (FQ-D31). AC adapter (FQ-AC□) is required.
Charging time (See note 1.)		2 h
Battery backup life (See note 2.)		300 charging cycles
Weight		50 g max.

Note: 1. This value is only a guideline. No guarantee is implied. The value will be affected by operating conditions

2. This is a guideline for the time required for the capacity of the Battery to be reduced to 60% of the initial capacity. No guarantee is implied. The value will be affected by the operating environment and operating conditions.

System Requirements for TouchFinder for PC

The following Personal Computer system is required to use the software.

	Microsoft Windows XP Home Edition/Professional SP2 or higher (See note 1.) Microsoft Windows 7 Home Premium or higher (See note 1.)
CPU	Core 2 Duo 1.06 GHz or the equivalent or higher
RAM	1GB min.
HDD	500 MB min. available space (See note 2.)
Monitor	1,024 × 768 dots min.

Note: 1. The Japanese and English versions support only 32-bit OS versions.

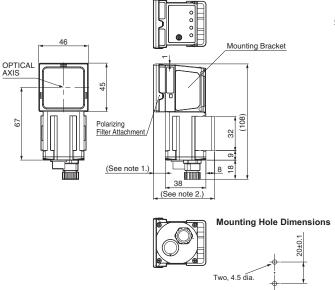
2. Available space is also required separately for data logging.

Code Reader (Dimensional drawings are provided here only for the products that have undergone design changes as of June 2012.)

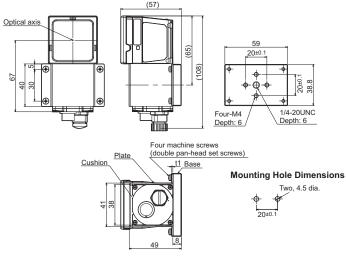
Tightening torque: 1.2 N·m

FQ-CR

Mounting with the FQ-XL Mounting Bracket



Mounting with the FQ-XL2 Mounting Bracket

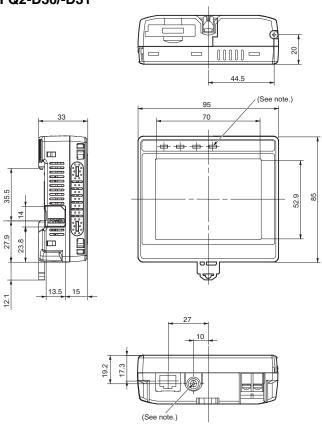


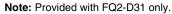
* Dimentions with the FQ-XL Mounting Bracket

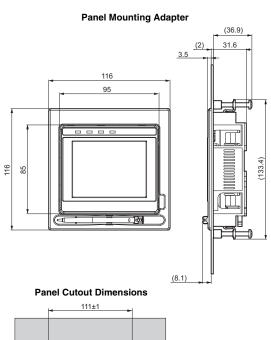
Туре	Model	Note 1.	Note 2.
Narrow View, Standard	FQ-CR1 010F-M/-CR2 010F-M/-CR1 050F-M/-CR2 050F-M	11	57
Wide View	FQ-CR1 100F-M/-CR2 0100F-M/-CR1 100N-M/-CR2 100N-M	3	49

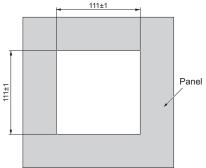
Touch Finder











READ AND UNDERSTAND THIS DOCUMENT

Please read and understand this document before using the products. Please consult your OMRON representative if you have any questions or comments.

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMBON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

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OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

THE PRODUCTS CONTAINED IN THIS DOCUMENT ARE NOT SAFETY RATED. THEY ARE NOT DESIGNED OR RATED FOR ENSURING SAFETY OF PERSONS, AND SHOULD NOT BE RELIED UPON AS A SAFETY COMPONENT OR PROTECTIVE DEVICE FOR SUCH PURPOSES. Please refer to separate catalogs for OMRON's safety rated products.

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At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.

Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.

Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PERFORMANCE DATA

Performance data given in this document is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the product may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

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