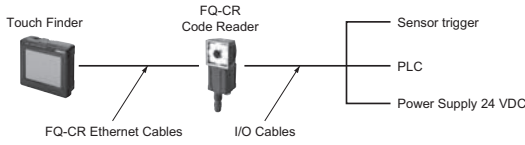
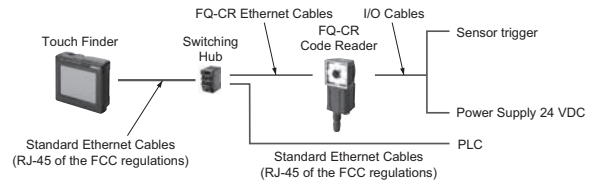


# System Configuration

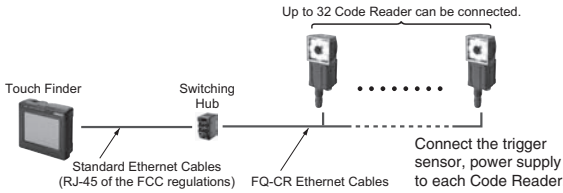
## Connections for One Code Reader Control by parallel input/output



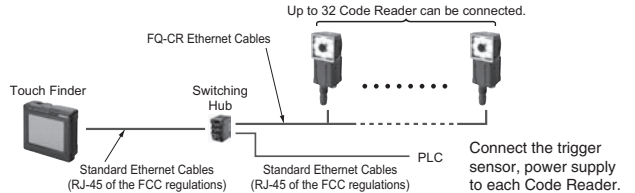
## Control by Ethernet



## Connections for Multiple Code Reader Control by parallel input/output



## Control by Ethernet

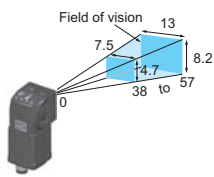


**Note:** If you register as a member after purchasing a Code Reader, you can download the free set-up software TouchFinder for PC that runs on a PC and can be used in place of the Touch Finder. Refer to the member registration sheet for details.

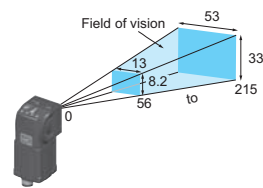
## Ordering Information

### Code Reader

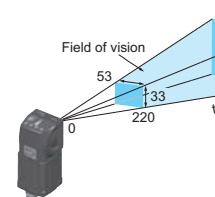
#### Narrow View



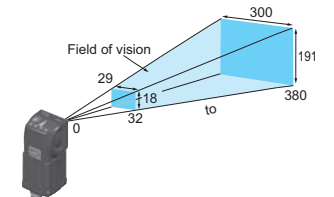
#### Standard



#### Wide View (Long-distance)



#### (Short-distance)



(Unit: mm)

	2D Code Reader	Multi Code Reader		2D Code Reader	Multi Code Reader
NPN	FQ-CR20010F-M	FQ-CR10010F-M	NPN	FQ-CR20050F-M	FQ-CR10050F-M
PNP	FQ-CR25010F-M	FQ-CR15010F-M	PNP	FQ-CR25050F-M	FQ-CR15050F-M

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

	2D Code Reader	Multi Code Reader
NPN	FQ-CR20100N-M	FQ-CR10100N-M
PNP	FQ-CR25100N-M	FQ-CR15100N-M

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

### Touch Finder

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

**Note:** AC Adapter and Battery are sold separately.

### Cables (Robot cable)

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

### Industrial Switching Hubs (Recommended)

Appearance	Number of ports	Failure detection	Current consumption	Model
	3	None	0.22 A	W4S1-03B
	5	None	0.22 A	W4S1-05B
		Supported		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
For Touch Finder		Panel Mounting Adapter	FQ-XPM
		AC Adapter (for models for DC/AC/Battery)	FQ-AC1
		Battery #2 (for models for DC/AC/Battery)	FQ-BAT1
		Touch Pen (enclosed with Touch Finder)	FQ-XT
		Strap	FQ-XH
		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.