



## SR-750

Ethernet-compatible 2D Code Reader, Short-distance Type



## SPECIFICATIONS

Model			SR-750 <sup>*1</sup>
Type			Close-range type
Receiver	Sensor		CMOS Image Sensor
	Number of pixels		752 x 480 pixels
Lighting	Light source		Red LED
Laser pointer			Visible semiconductor laser, Wavelength 660 nm
	Output		60 μW
	Pulse duration		200 μs
	Laser class		Class 1 Laser Product (IEC60825-1, FDA (CDRH) Part 1040.10 <sup>*2</sup> )
Reading specifications	Minimum resolution	2D	0.127 mm <b>0.005"</b>
		Barcode	
	Supported symbol	2D	QR, MicroQR, DataMatrix (ECC200), GS1 DataMatrix, PDF417, MicroPDF, Composite Code (CC-A, CC-B, CC-C)
		Barcode	GS1DataBar, CODE39, ITF, NW-7 (Codabar), CODE128, GS1-128, JAN/EAN/UPC, CODE39 FullASCII, CODE93, 2of5 (Industrial 2of5), COOP 2of5, Trioptic CODE39
	Reading distance (typical examples)	DataMatrix QR	40 to 80 mm <b>1.58" to 3.15"</b> (Cell size = 0.25 mm <b>0.01"</b> )
		Barcode	30 to 100 mm <b>1.18" to 3.94"</b> (Narrow bar width = 0.33 mm <b>0.013"</b> )
	Focal distance		60 mm <b>2.36"</b>
	Field of view (at focal distance)		42.5 x 27.1 mm <b>1.67" x 1.07"</b>
I/O specifications	Control input	Number of inputs	2
		Input type	Bidirectional voltage input
		Maximum rating	26.4 VDC
		Minimum ON voltage	15 VDC
		Maximum OFF current	0.2 mA or less
	Control output	Number of outputs	3
		Output type	Photo MOS relay output
		Maximum rating	30 VDC
		Maximum load current	1 output: 50 mA or less, Total of 3 outputs: 100 mA or less
		Leakage current when OFF	0.1 mA or less
		Residual voltage when ON	1 V or less
	Ethernet	Communication standard	10BASE-T/100BASE-TX
		Supported protocol	TCP/IP, FTP, SNMP, BOOTP, EtherNet/IP™, PROFINET, MC protocol, KV STUDIO
	Serial communication	Communication standard	RS-232C compliant
		Transmission speed	9600, 19200, 38400, 57600, 115200 bps
Supported protocol		Non-procedural, MC protocol, SYSWAY, KV STUDIO	
Rating	Power voltage		Control port: 24 VDC ±10 % or Ethernet port: PoE TypeA/B 36 to 57 V (Cannot supply at the same time) <sup>*3</sup>
	Current consumption		Control port: 220 mA (When 24 VDC power supply is used) Ethernet port: PoE Power Class 2 <sup>*4</sup>
Environmental resistance	Enclosure rating		IP65
	Ambient light		Sunlight: 10,000 lux, Incandescent lamp: 6,000 lux, Fluorescent lamp: 2,000 lux
	Ambient temperature		0 to +45 °C <b>32 to 113 °F</b>
	Storage temperature		-10 to +50 °C <b>14 to 122 °F</b>
	Relative humidity		35 to 95 % RH (No condensation)
	Storage relative humidity		
	Operating environment		No dust or corrosive gases present
	Vibration resistance		10 to 55 Hz, Double amplitude 1.5 mm <b>0.06"</b> , 55 to 500 Hz, Acceleration 5G, 3 hours in each of the X, Y, and Z directions
Weight			Approx. 160 g

<sup>\*1</sup> PROFINET is a trademark or registered trademark of PROFIBUS International.

EtherNet/IP<sup>TM</sup> is a trademark or registered trademark of ODVA.

<sup>\*2</sup> The laser classification for FDA (CDRH) is implemented based on IEC60825-1 in accordance with the requirements of Laser Notice No.50.

<sup>\*3</sup> To comply with CSA No.61010-1/UL61010-1/IEC61010-1, use a power supply meeting the following criteria:

- provides Class 2 output as defined in the CEC and NEC, or  
- evaluated as a Limited Power Source as defined in CAN/CSA-C22.2 No.60950-1/UL60950-1/IEC60950-1.

<sup>\*4</sup> Peak operating current for PoE Power Class 2: 210 mA maximum.

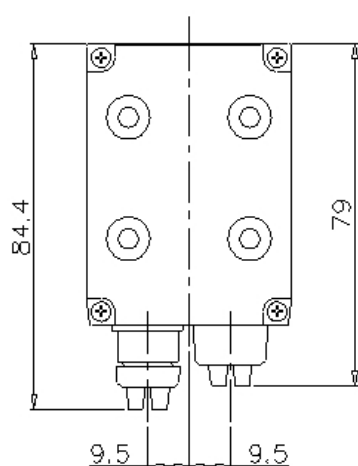
## Dimensions

\* Download CAD file or product manual for larger image/text and more detail.

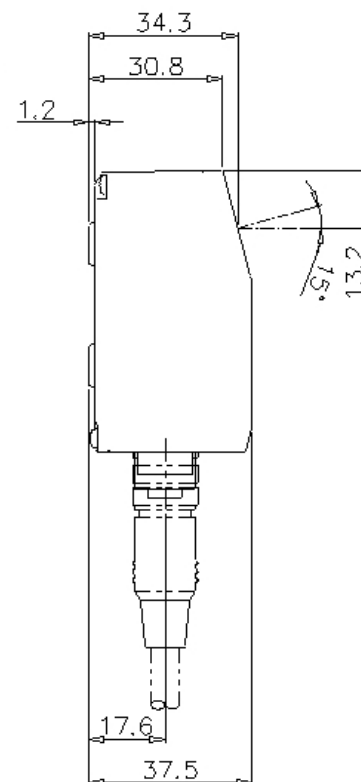
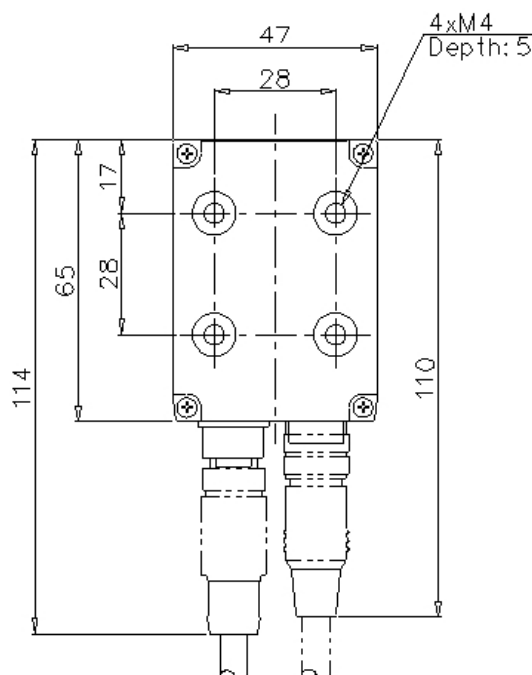
sr-750\_751\_750ha\_650\_651\_650ha\_dimension\_01.gif

# SR-750/751/750HA/650/651/650HA

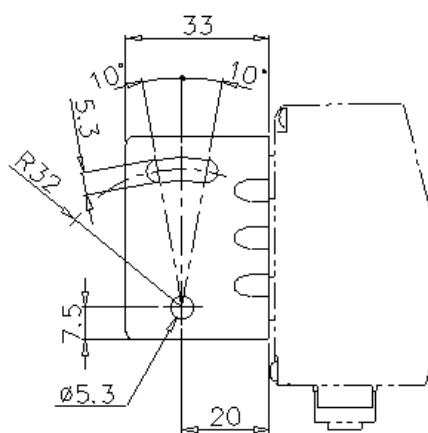
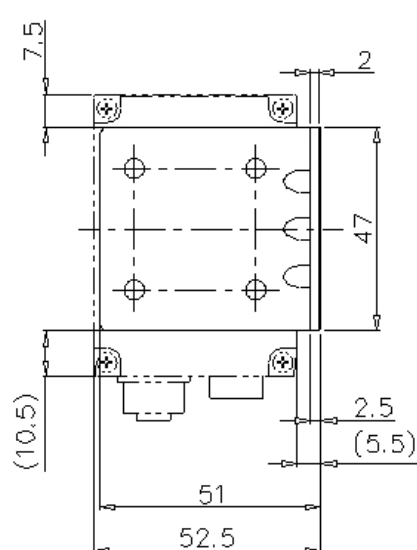
With port cover



With cable



When mounting bracket is attached



Screw hole dimensions

