



## SR-X300

AI-Powered Code Reader



## Specifications

Model			SR-X300 *1
Type			SR-X300: Standard type (2.3 megapixels) SR-X300 + SR-XHR: High-resolution type
Receiver	Sensor		CMOS image sensor
	Number of pixels		1920 × 1200
	Focus		Auto*2
Emitter	Illumination light source		High-intensity red/white LED*3
	Pointer light source		High-intensity green LED*3
Reading specifications	Supported symbols	2D codes	QR, MicroQR, DataMatrix(ECC200), DMRE, GS1 DataMatrix, PDF417, MicroPDF417, GS1 Composite (CC-A/CC-B/CC-C), DotCode, Maxi Code, Aztec Code
		Barcodes	CODE39, ITF, 2of5 (Industrial 2of5), COOP 2of5, NW-7 (Codabar), CODE128, GS1-128, GS1 DataBar, CODE93, JAN/EAN/UPC, Trioptic CODE39, CODE39 Full ASCII, Pharmacode, Postal (Japan Postal, IMB)
	Minimum resolution	2D codes	SR-X300: 0.024 mm SR-X300 + SR-XHR: 0.010 mm
		Barcodes	0.082 mm
	Reading distance		SR-X300: 70 to 1000 mm SR-X300 + SR-XHR: 32 to 47 mm
	Reading field of view		SR-X300: 104 × 65 mm (at a distance of 300 mm) SR-X300 + SR-XHR: 12.3 × 7.7 mm (at a distance of 47 mm)
I/O specifications	Control input	Number of inputs	2
		Input type	Bidirectional voltage input
		Maximum rating	30 VDC
		Minimum ON voltage	15 VDC
		Maximum OFF current	0.2 mA
	Control output	Number of outputs	3
		Output type	Photo MOS relay output
		Maximum rating	30 VDC
		Maximum load current	50 mA or less for 1 output, or 100 mA or less in total for 3 outputs
		Leakage current when OFF	0.1 mA or less
		Residual voltage when ON	1 V or less
	Ethernet	Communication standard	IEEE 802.3-compliant 100BASE-TX

		Supported protocols	TCP/IP, SNTP, FTP, SFTP, HTTP, HTTPS, BOOTP, EtherNet/IP®, PROFINET, KV STUDIO, MC protocol, OMRON PLC link
	Serial communication	Communication standard	RS-232C-compliant
		Communication speed	600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
		Supported protocols	No-protocol, KV STUDIO, MC protocol, SYSWAY
	USB	Communication standard	USB 2.0 High Speed compliant
Ratings	Power voltage		24 VDC +25%/-20%
	Current consumption		Approx. 750 mA
Environmental resistance	Enclosure rating		IP65/IP67 (IEC60529)*4
	Ambient temperature		0 to +45°C
	Storage temperature		-10 to +50°C
	Relative humidity		35 to 85% RH (No condensation)
	Storage relative humidity		
Weight			SR-X300: Approx. 200 g SR-X300 + SR-XHR: Approx. 225 g

\*1 System ROM rewrites: 100000

\*2 The focal position can be adjusted automatically during installation or tuning.

\*3 LEDs and lamps are classified as shown below according to IEC 62471 (JIS C 7550).

• Exempt group: Objects that do not cause any photobiological damage.

• Risk group 1 (low risk): Objects that do not cause damage that makes constraints on normal actions necessary.

• Risk group 2 (moderate risk): Objects that do not cause damage accompanied by unpleasant feelings and thermal discomfort.

• Risk group 3 (high risk): Objects that cause damage even due to temporary or short-term exposure.

The risk groups for this product are listed below.

Pointer light source (Green): Risk group 1

Illumination light source (Red): Risk group 1

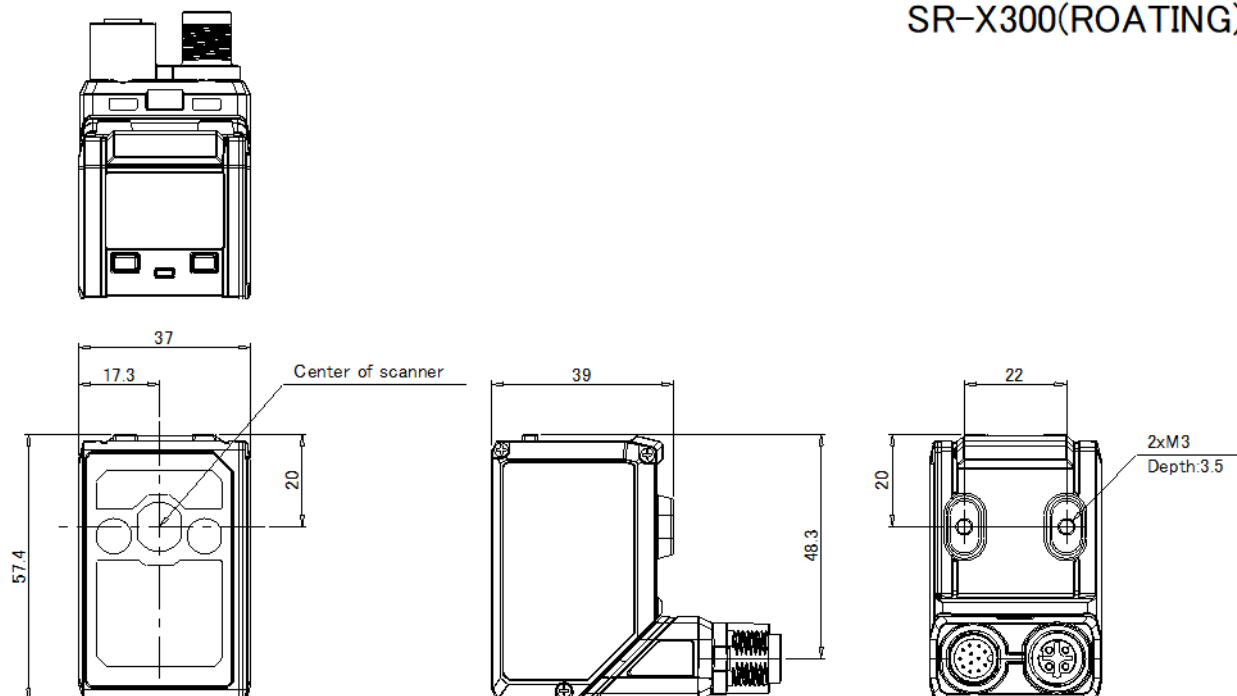
Illumination light source (White), Advance only: Risk group 1

\*4 Attach a USB port cover to meet the protective structural specification.

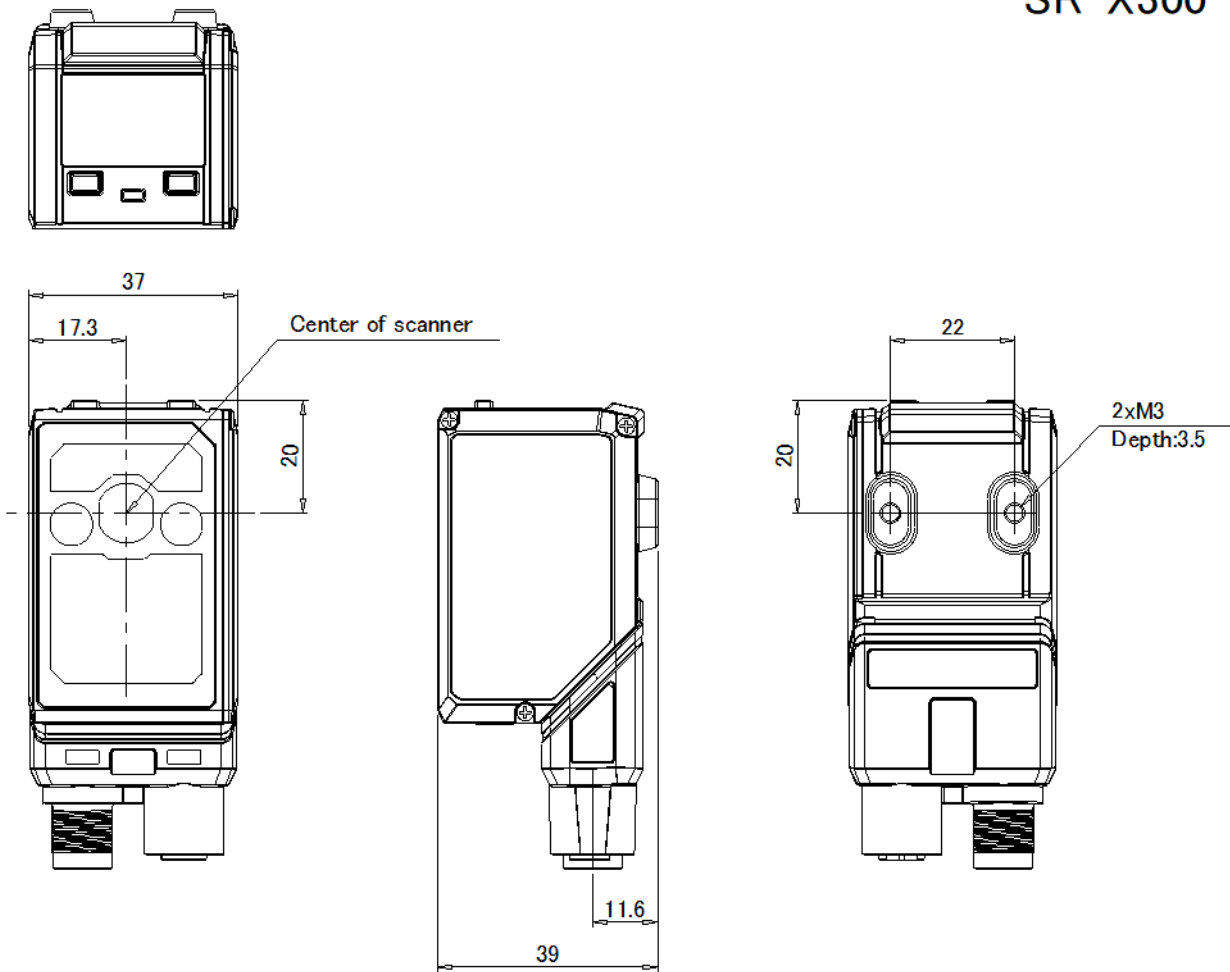
## Dimensions

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

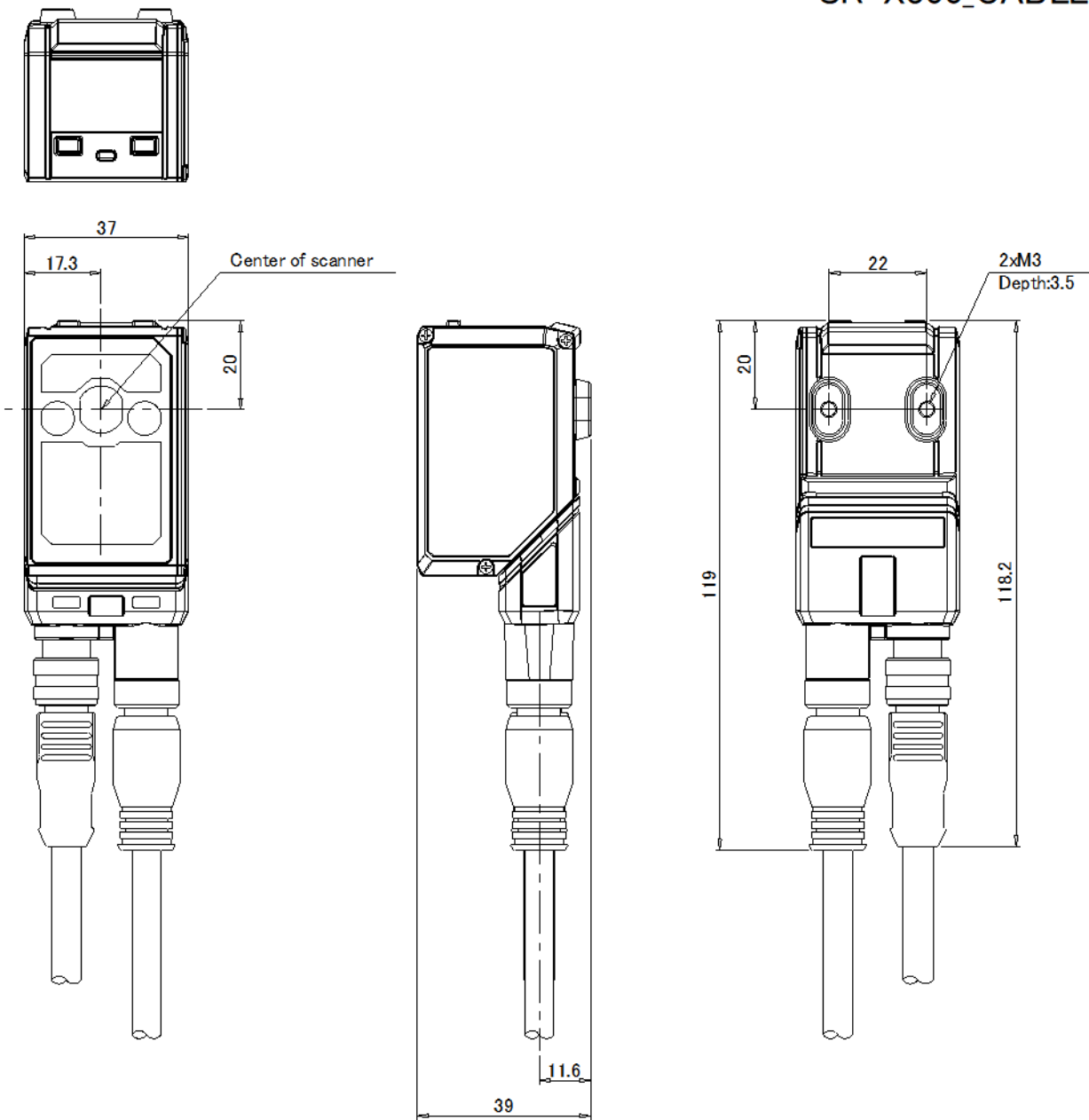
### SR-X300(ROATING)



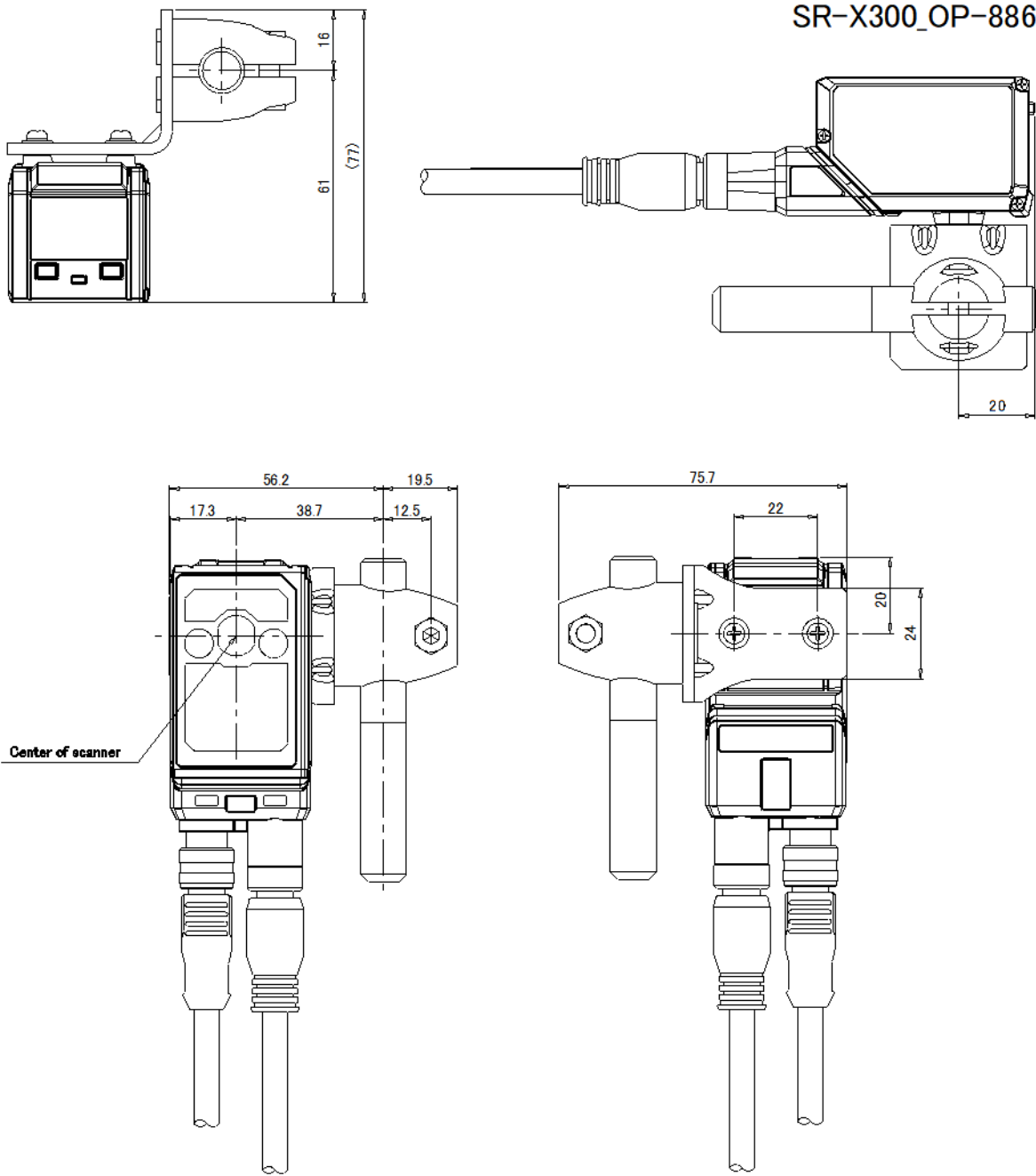
SR-X300



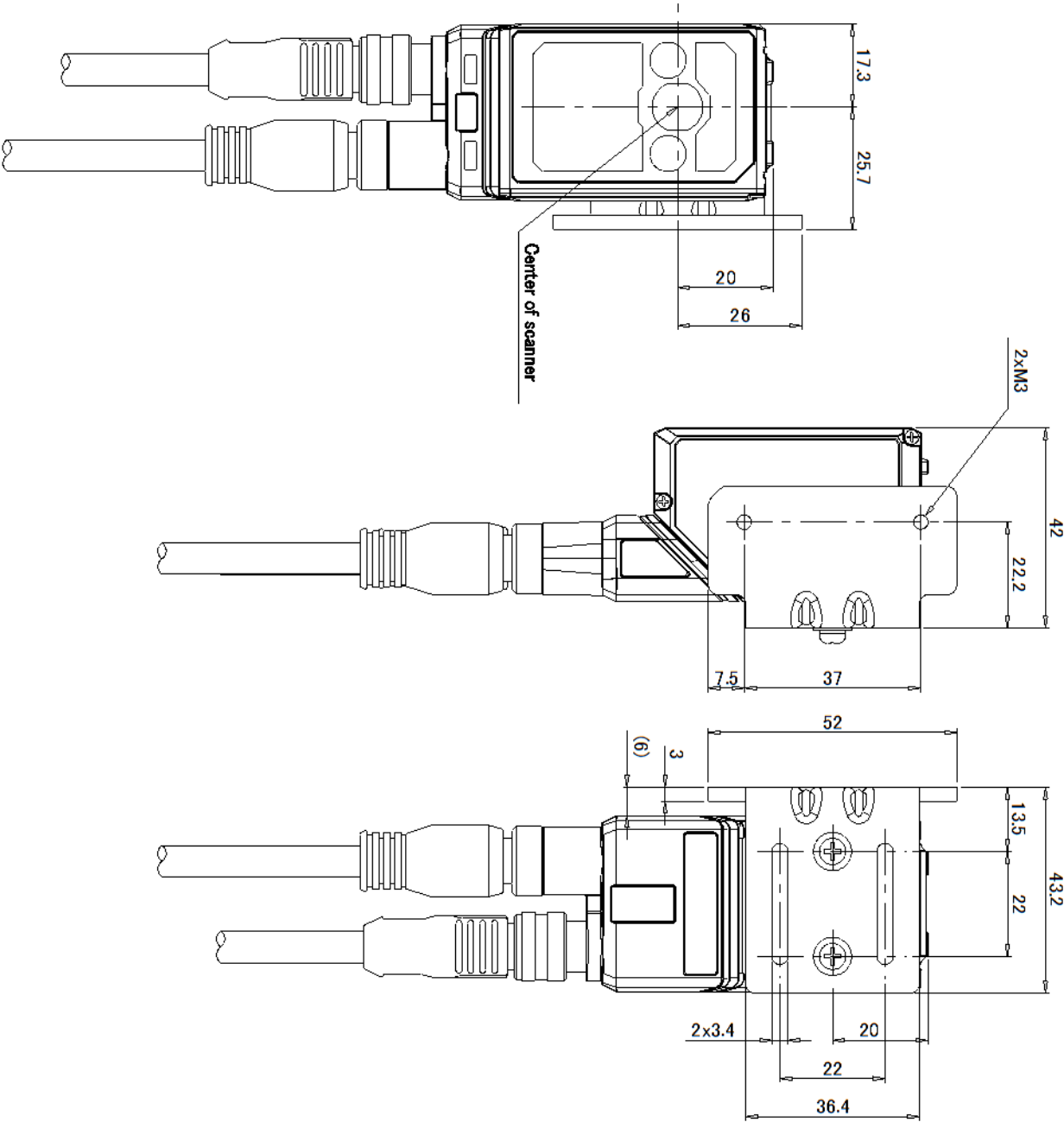
SR-X300\_CABLE



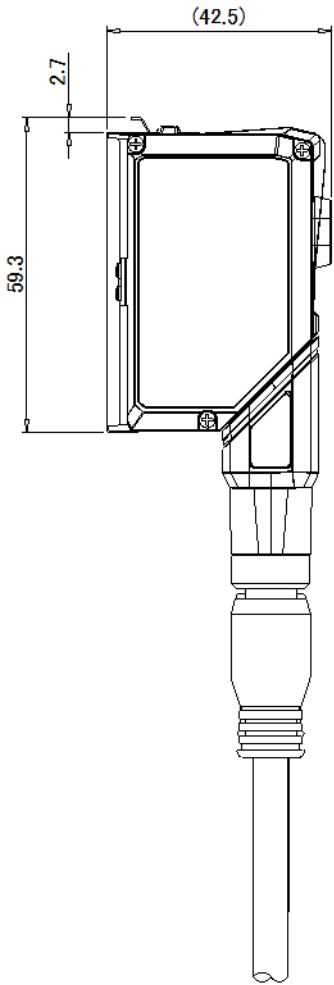
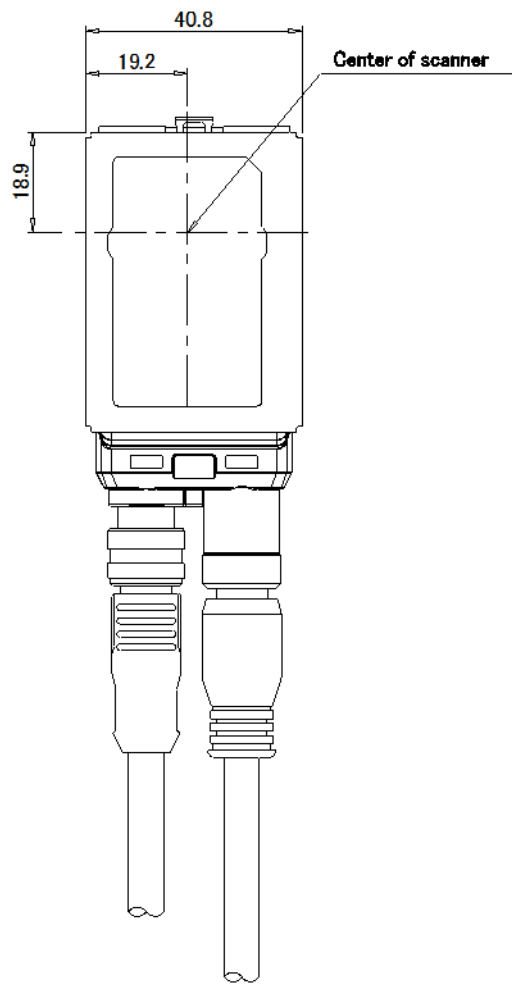
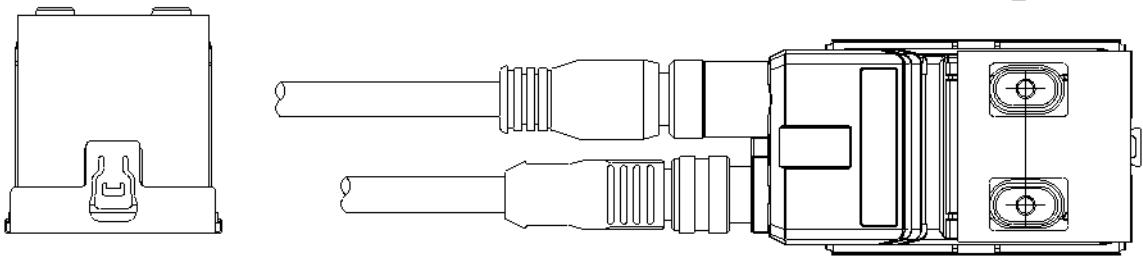
SR-X300\_OP-88697



SR-X300\_OP-88698

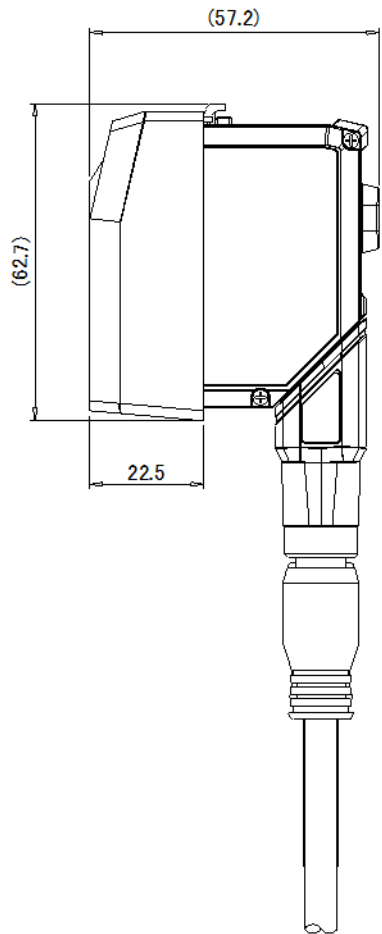
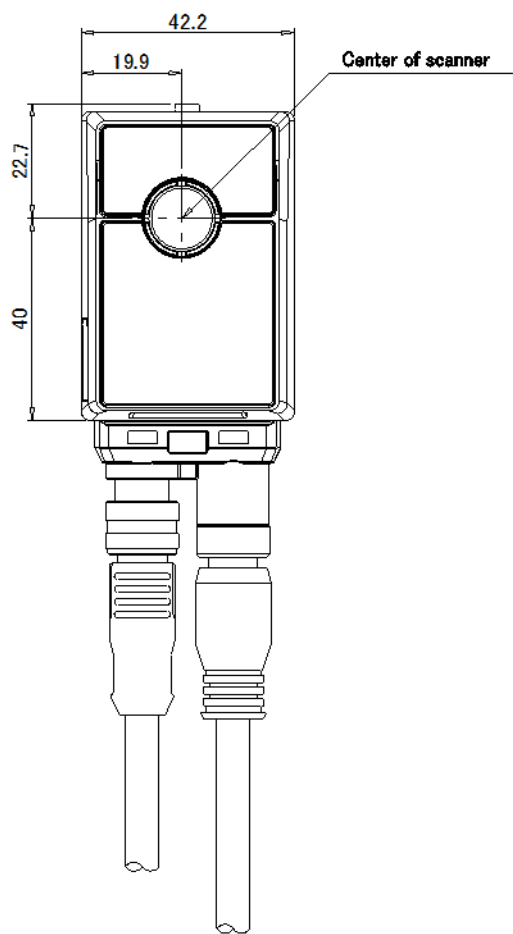
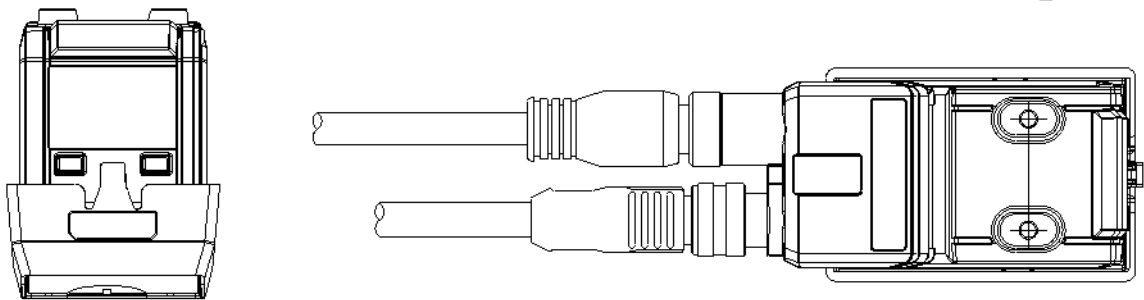


SR-X300\_SR-XESD

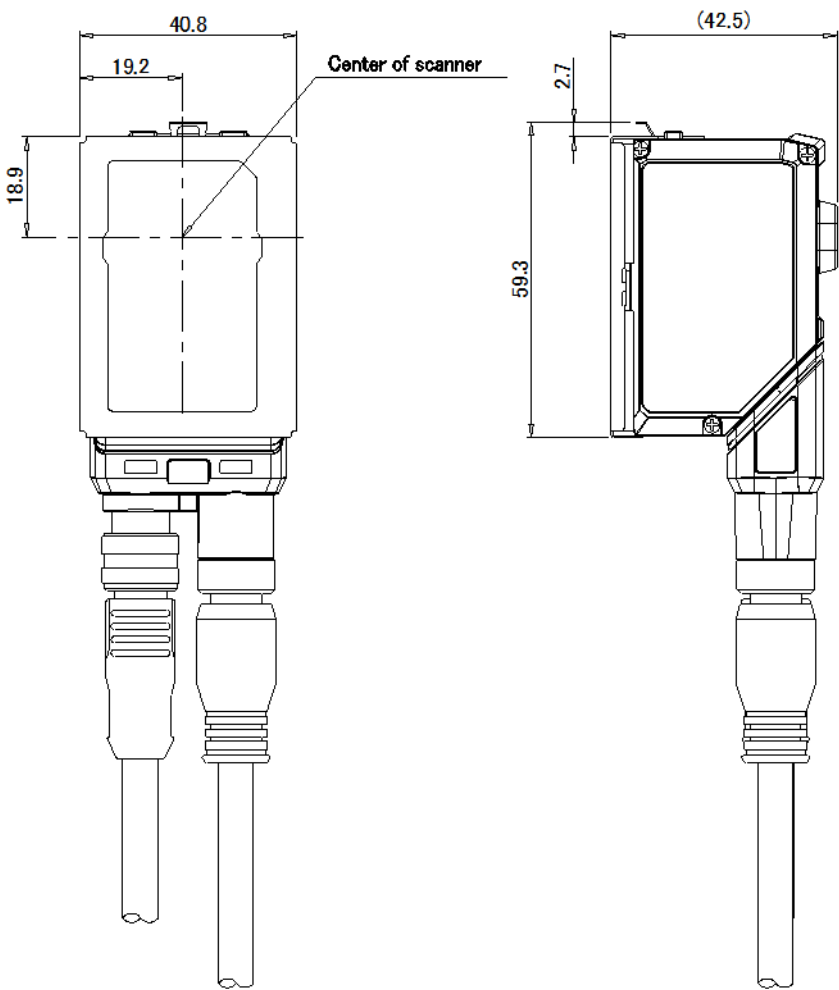
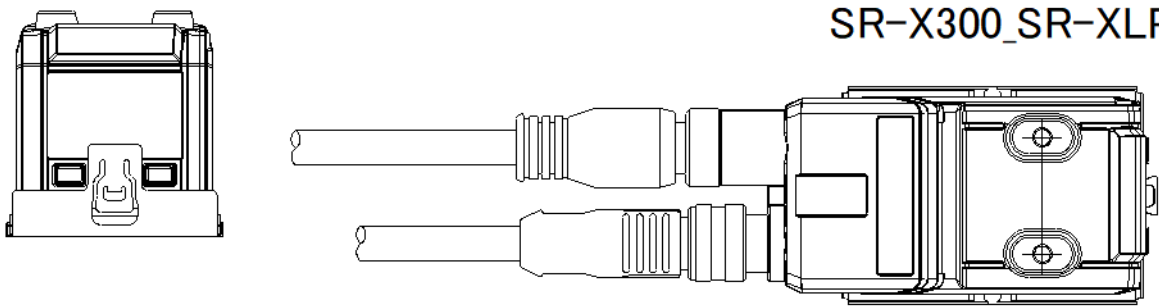




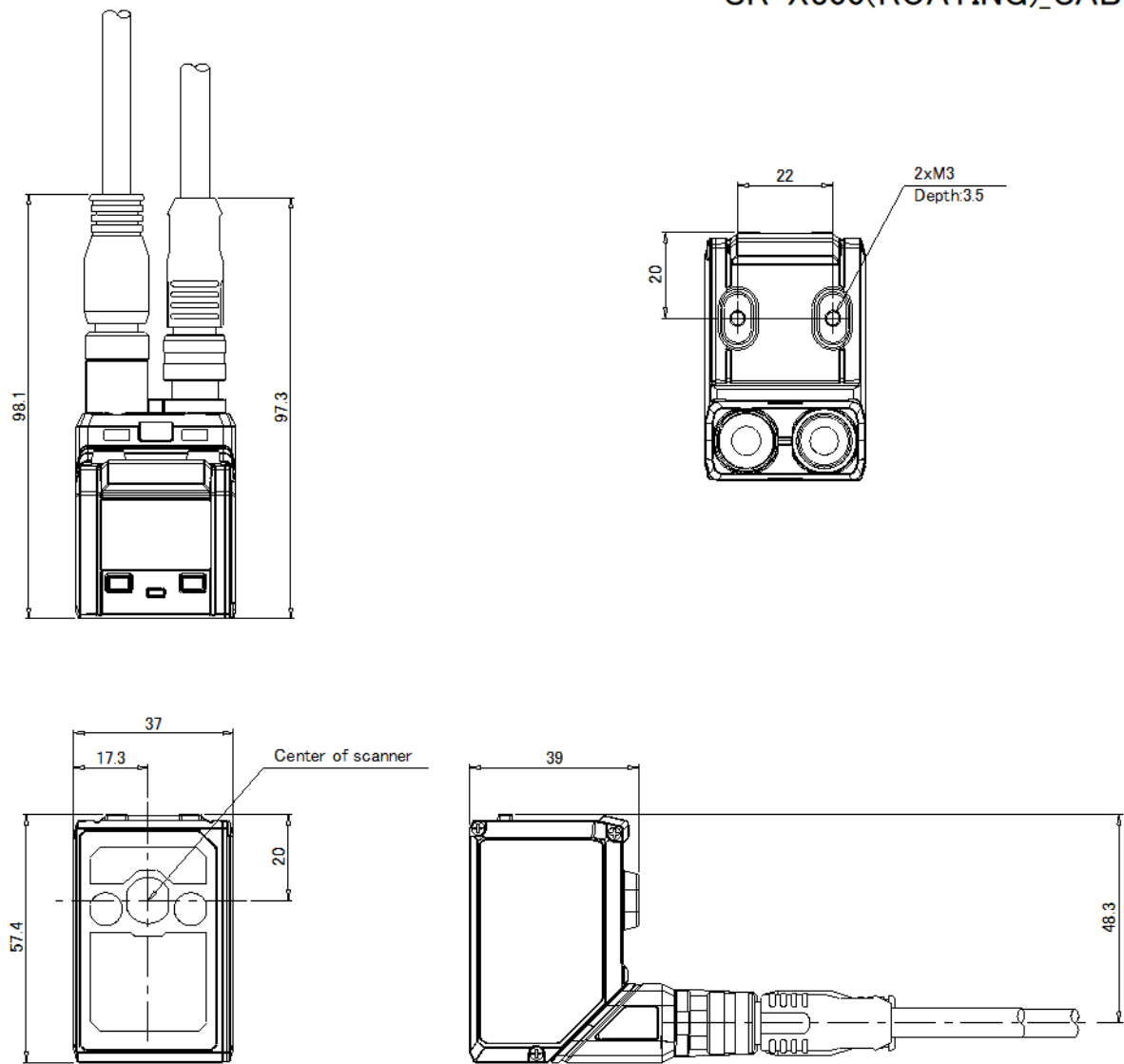
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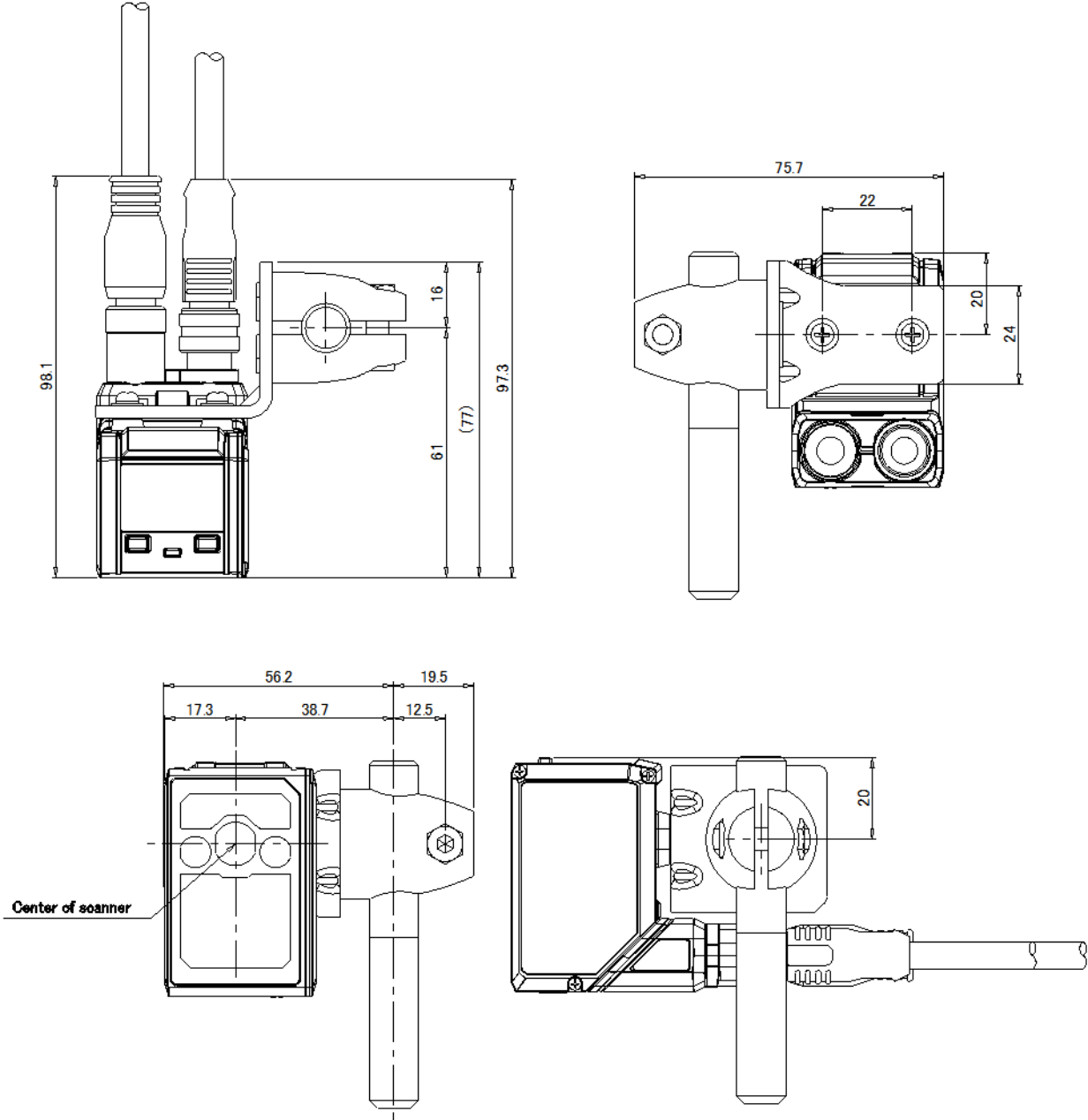
SR-X300\_SR-XLP



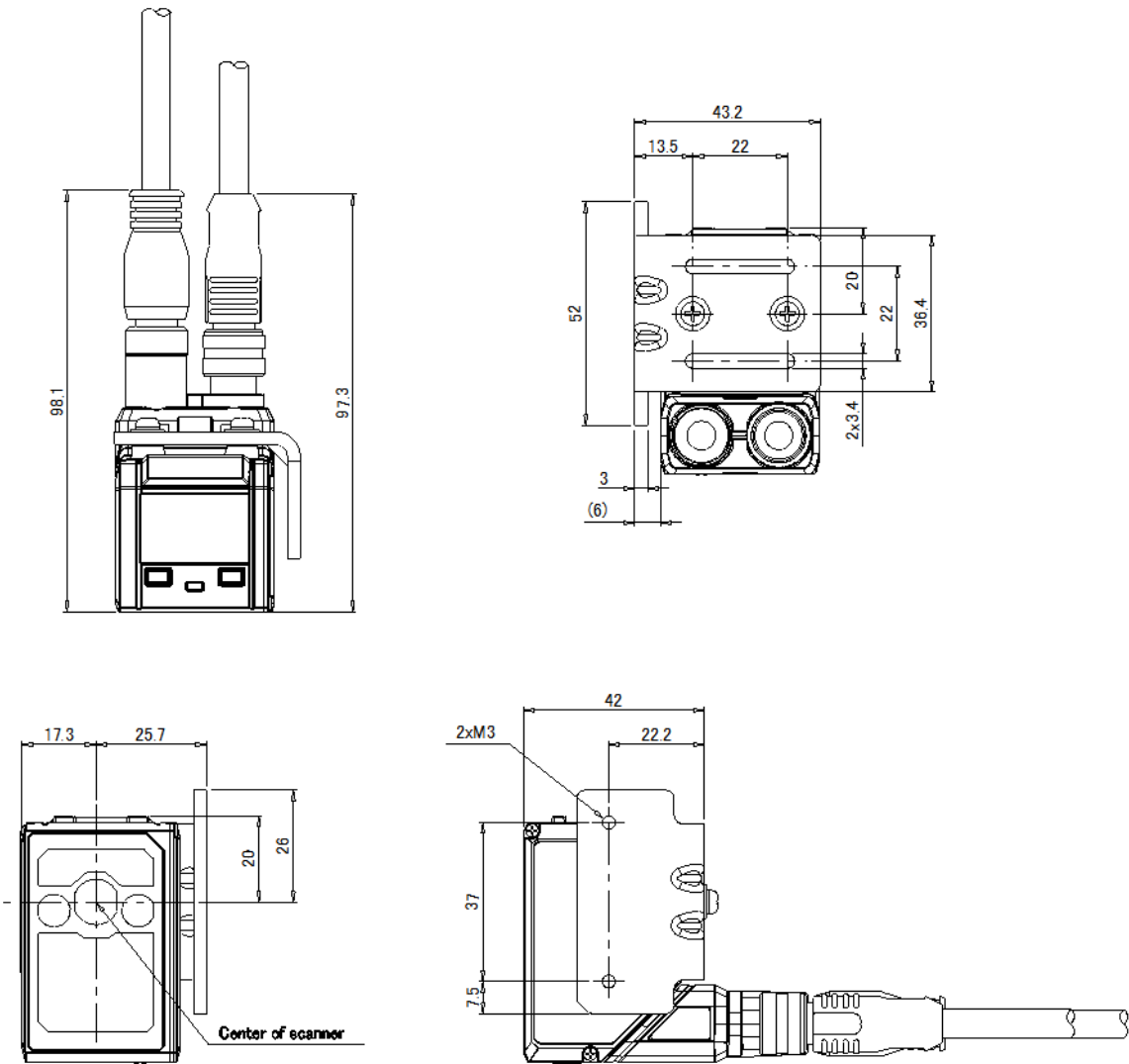
SR-X300(ROATING)\_CABLE



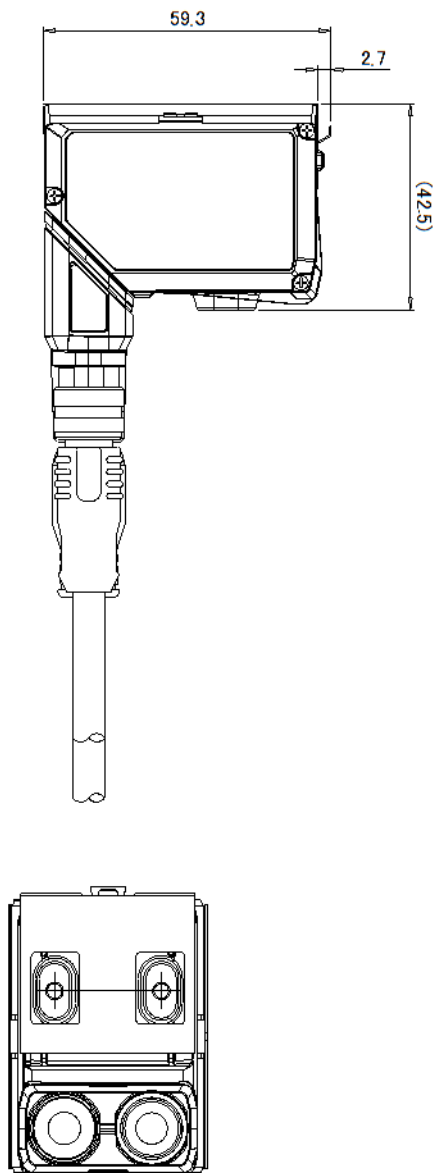
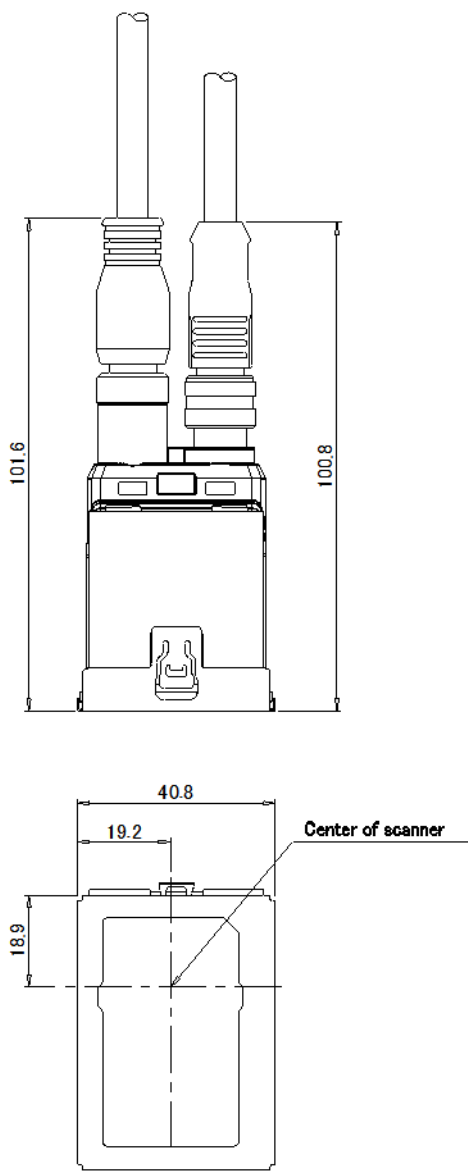
SR-X300(ROATING)\_OP-88697



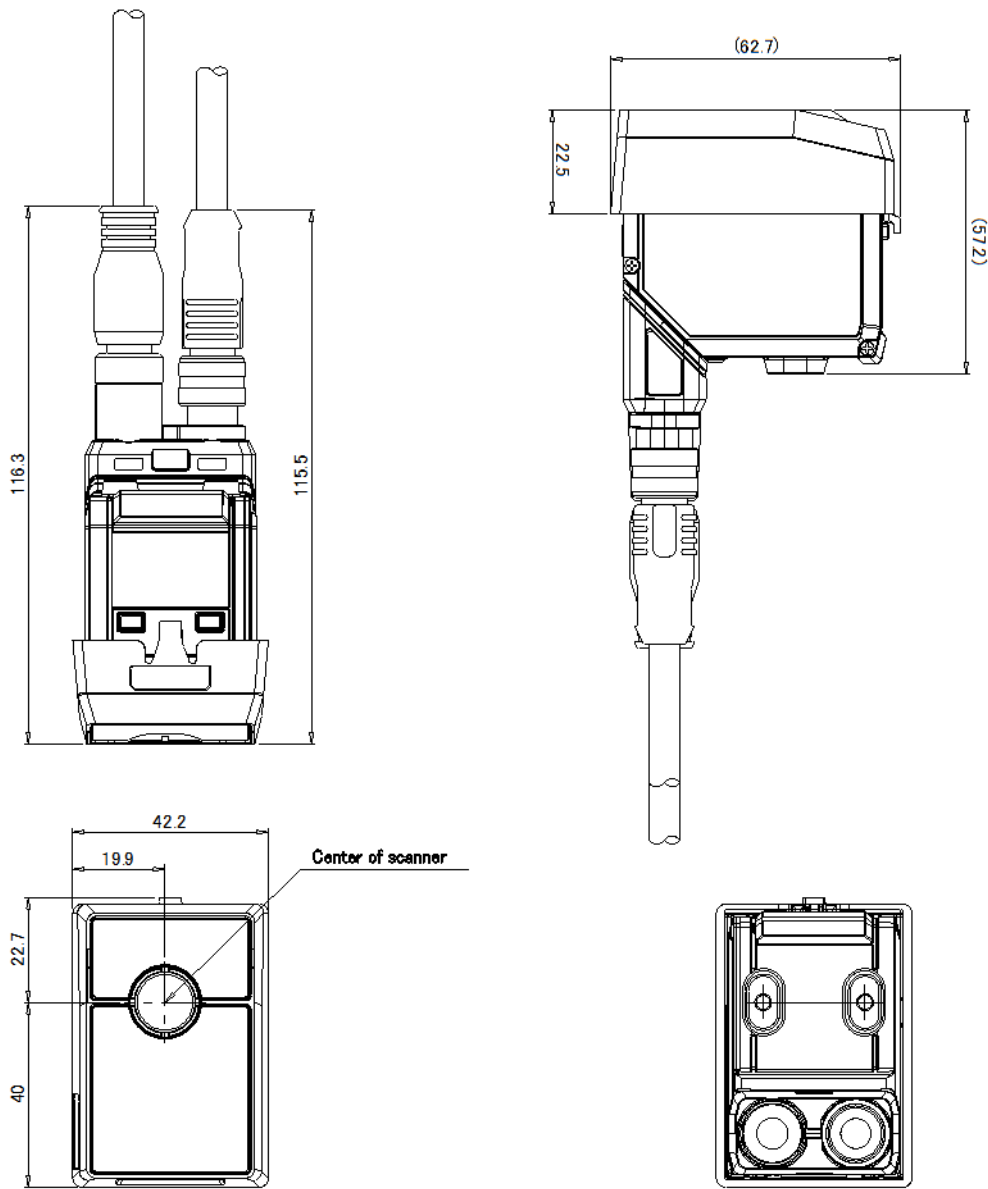
SR-X300(ROATING)\_OP-88698



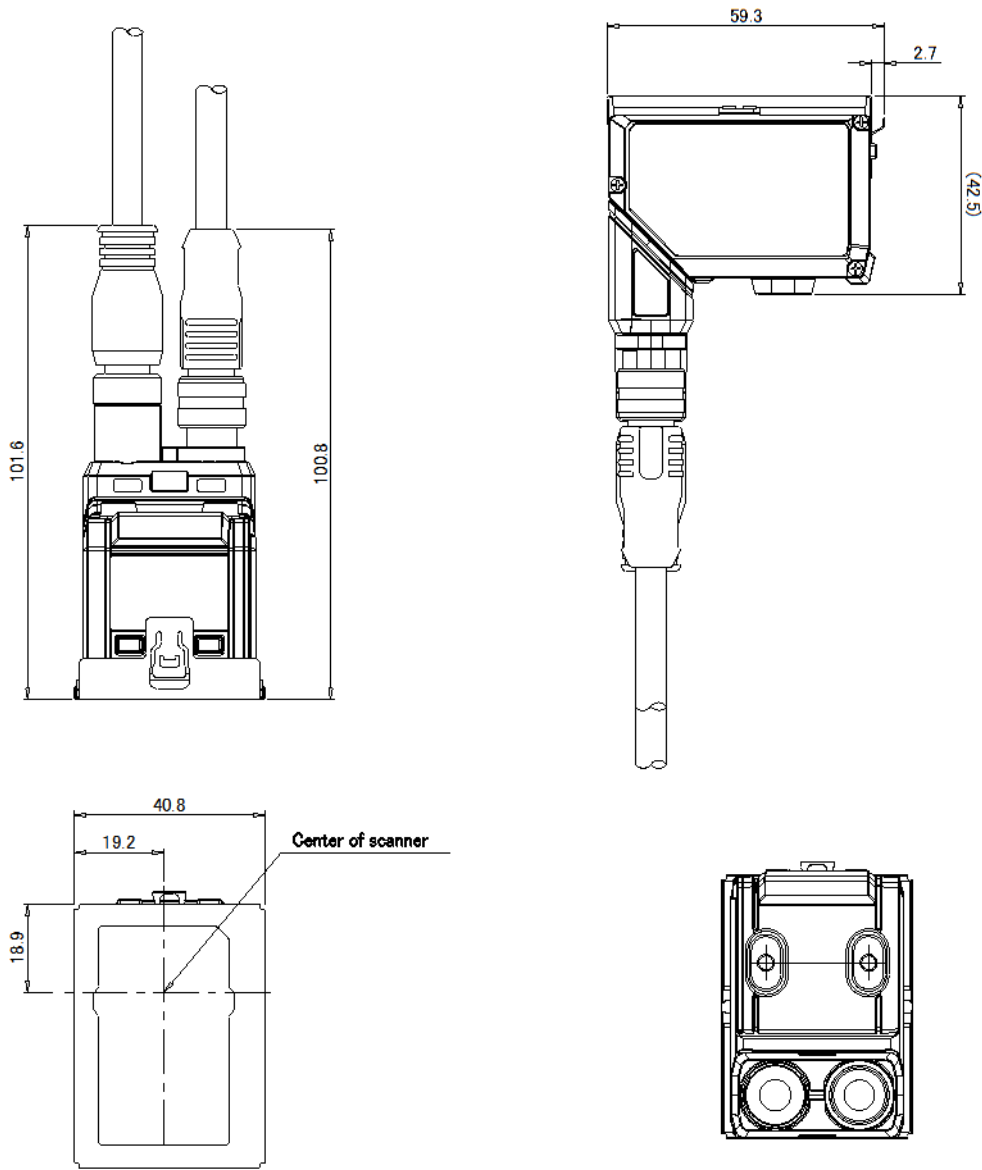
SR-X300(ROATING)\_SR-XESD



SR-X300(ROATING)\_SR-XHR



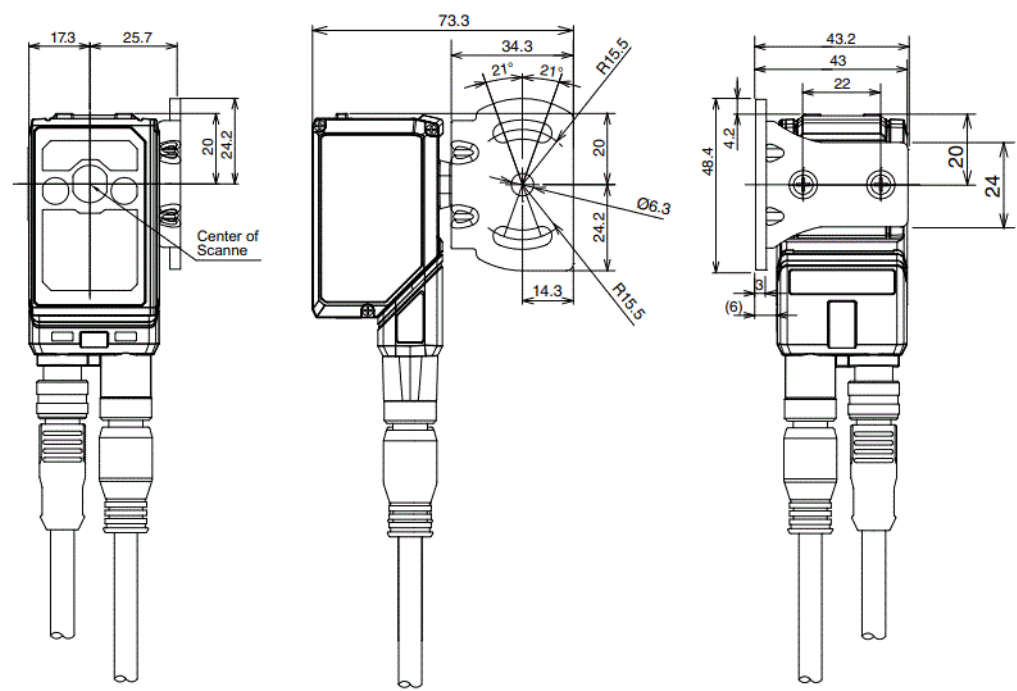
SR-X300(ROATING)\_SR-XLP





● SR-X300+OP-88696

Unit: mm



● SR-X300+OP-88699

Unit: mm

