



AI-B100

Built-in Amplifier Model: 100mm



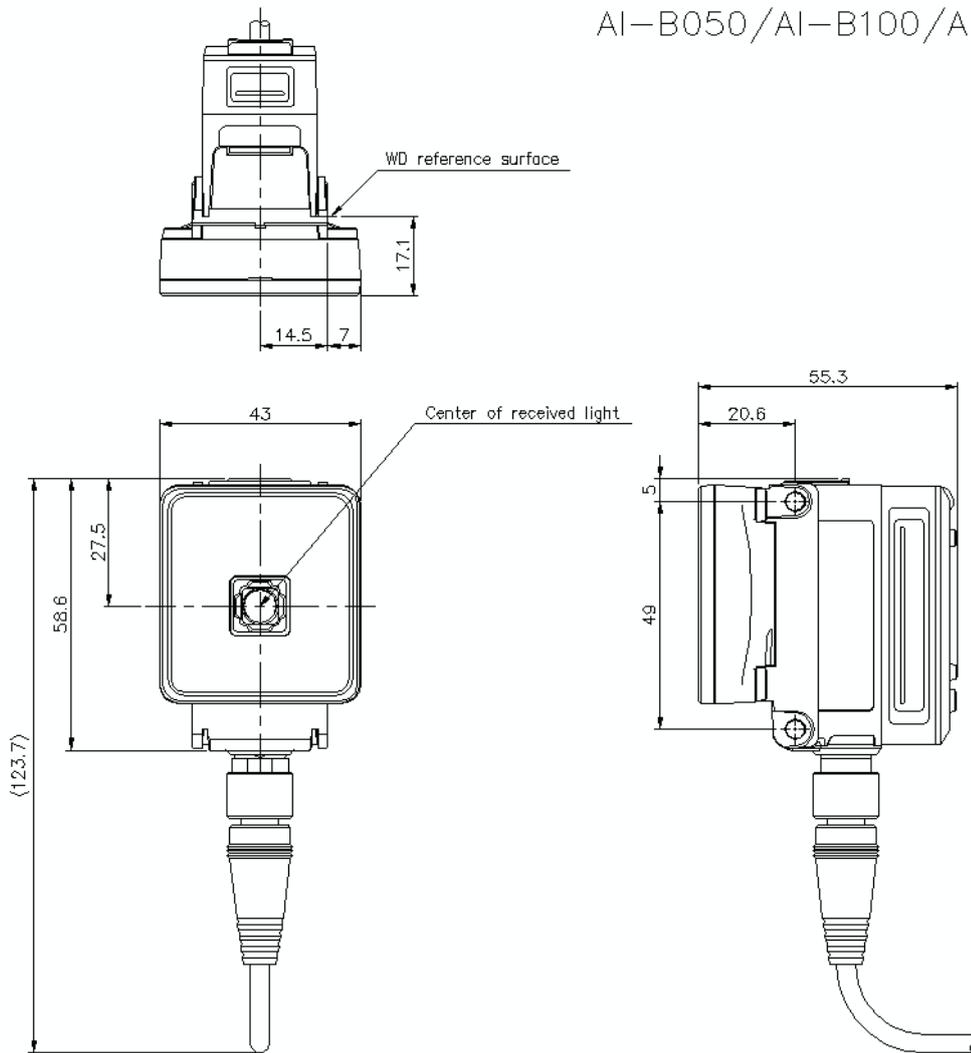
*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model	AI-B100	
Installation Distance	90 to 110 mm 3.54 to 4.33"	
Detection Area	1X Zoom to 4X Zoom	8 × 8 mm 0.31 × 0.31" to 32 × 32 mm 1.26 × 1.26" *1
	Digital Zoom	1X to 4X (17 steps) adjustment, zoom position adjustment*1
Light Receiving Element	BW CMOS	
Transmitter	Light Source	Red LED (660 nm)
	Lighting Method	Pulse lighting
Detection Modes	Presence check mode / Difference check mode / Feeder mode	
Response Time	Switchable between 3 ms/10 ms/20 ms/50 ms/100 ms	
Timer	OFF/Off-delay/On-delay/One-shot	
Bank Function	Bank slots: Up to 2	
Other Functions	Filter, orientation detection, anti-blur, hysteresis, mutual interference prevention, indicator LED color change, screen display orientation, statistics display, failure hold display, key lock function, I/O test	
Display Panel	Organic LED (OLED) display	
Languages	Japanese/English/Chinese (Simplified)	
Indicators	Main Indicator	1 (green/red/orange)
	I/O Indicators	2 indicators (red): OUT1/OUT2 or IN
Input	Type	Non-voltage input/voltage input can be switched Non-voltage input: ON voltage 2 V or lower, OFF current 0.1 mA or lower, ON current 2 mA or lower (short circuit) Voltage input: Maximum input rating 30 V, ON current 18 V or higher, OFF current 0.1 mA or lower, ON current 2 mA or lower (at 30 V)
	Number of Inputs	1: IN or no input*2
	Functions	Assignable functions: Bank/Hold (level)/Hold (edge)/Reset/External calibration/Interference prevention/Light off
Output	Type	Open collector output: Can be switched between NPN/PNP and N.O./N.C. Maximum rating: 30 V 50 mA, remaining voltage 2 V or lower
	Number of Inputs	1: OUT1 or 2: OUT1/OUT2*2
	Functions	Assignable functions for OUT2: Error output/Judgment output 2/Interference prevention output (sync-output)
Communication Functions	IO-Link: Specification v. 1.1 (1.0)/COM2 (38.4 kbps)	
Rating	Power voltage	20 to 30 VDC, including Ripple (P-P) 10 %
	Current consumption	0.3 A or less (power voltage at 20 V, excluding the output load)
Environmental resistance	Enclosure rating	IP67*3
	Ambient temperature	-10 to +50 °C 14 to 122 °F (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)

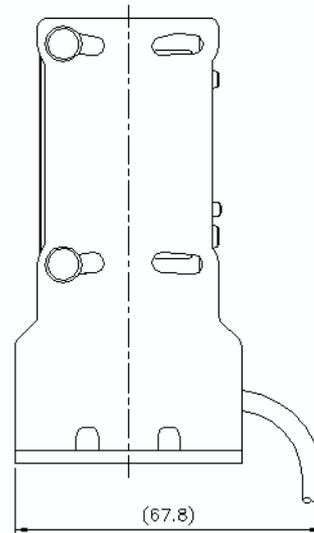
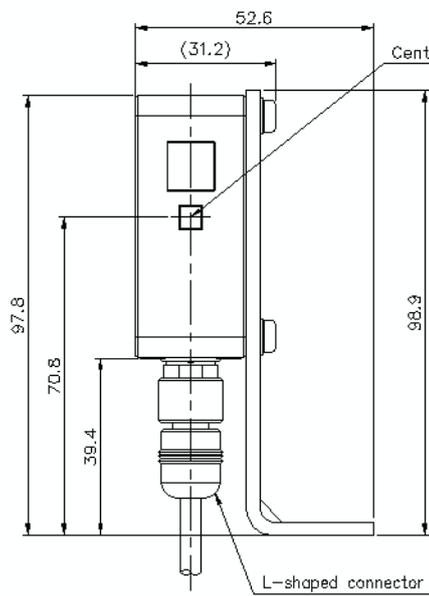
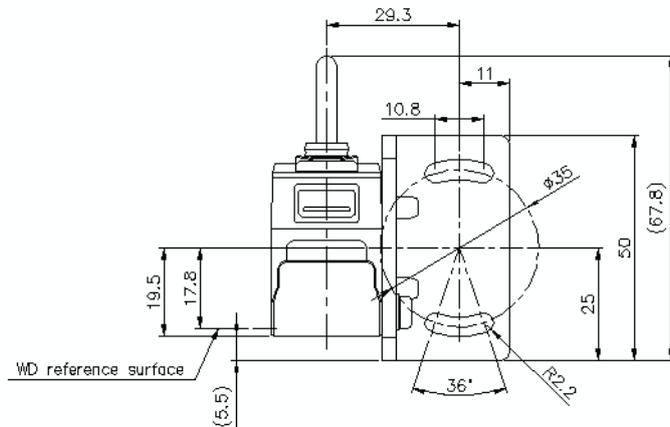
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AI-B050/AI-B100/AI-B160/AI-D16B



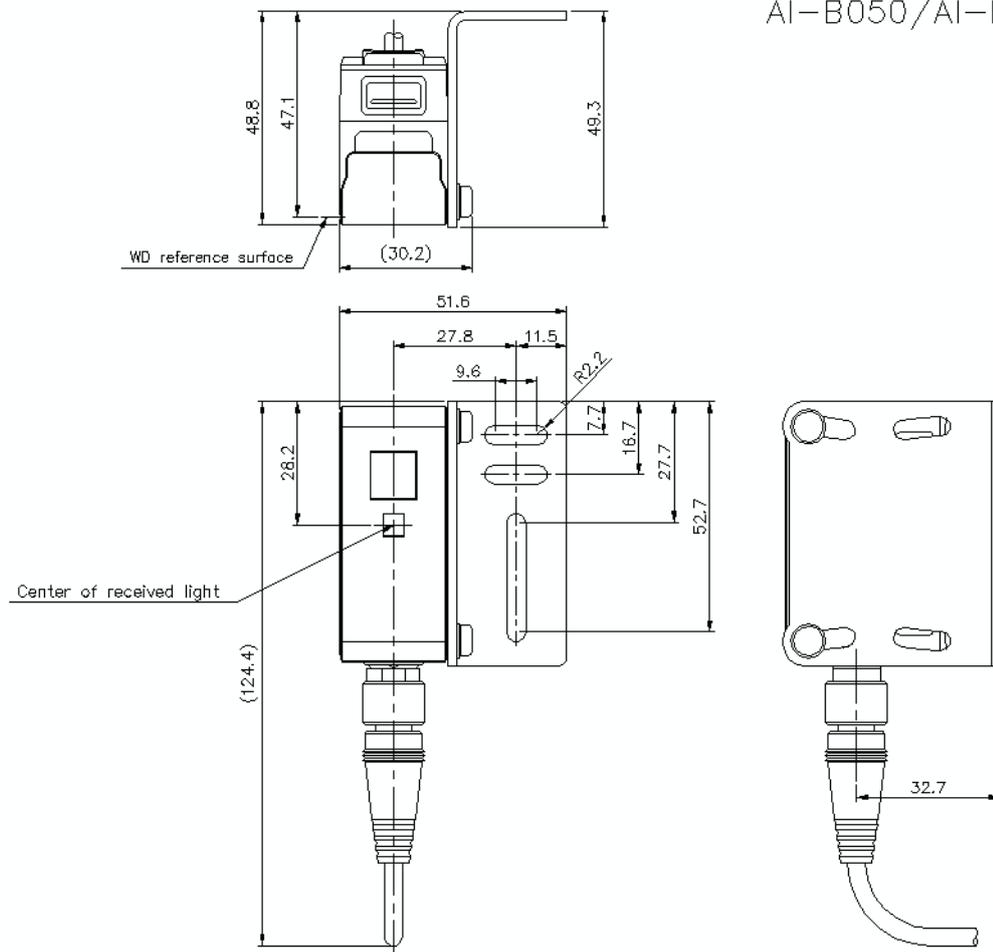
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AI-B050/AI-B100/OP-88114

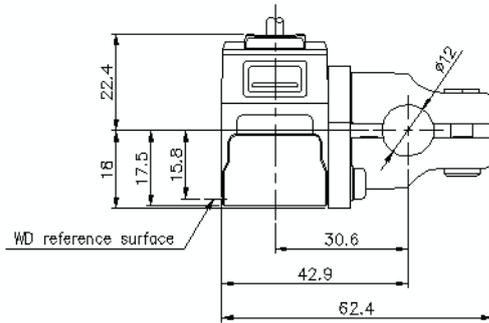


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AI-B050/AI-B100/OP-88115

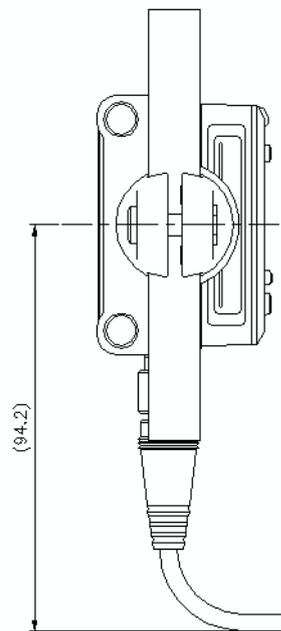
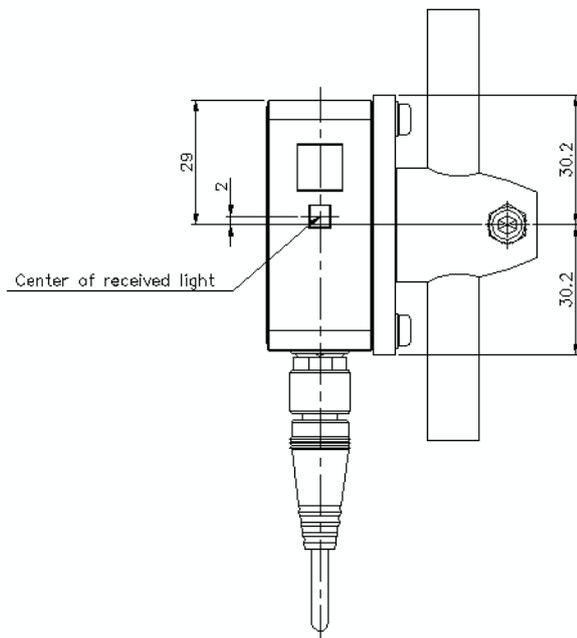


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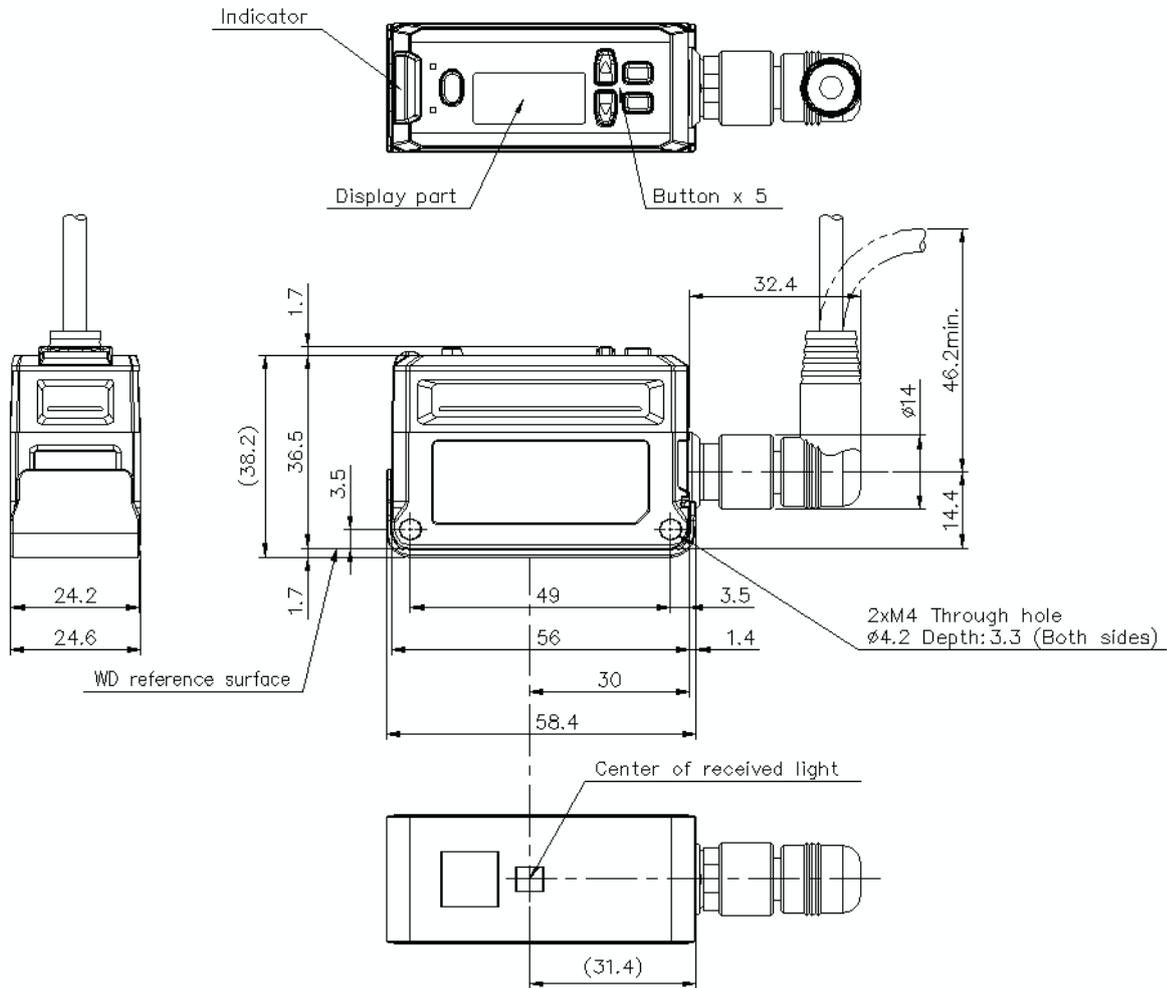
AI-B050/AI-B100/OP-88116

* A pole ($\phi 12$) is not included in OP-88116.



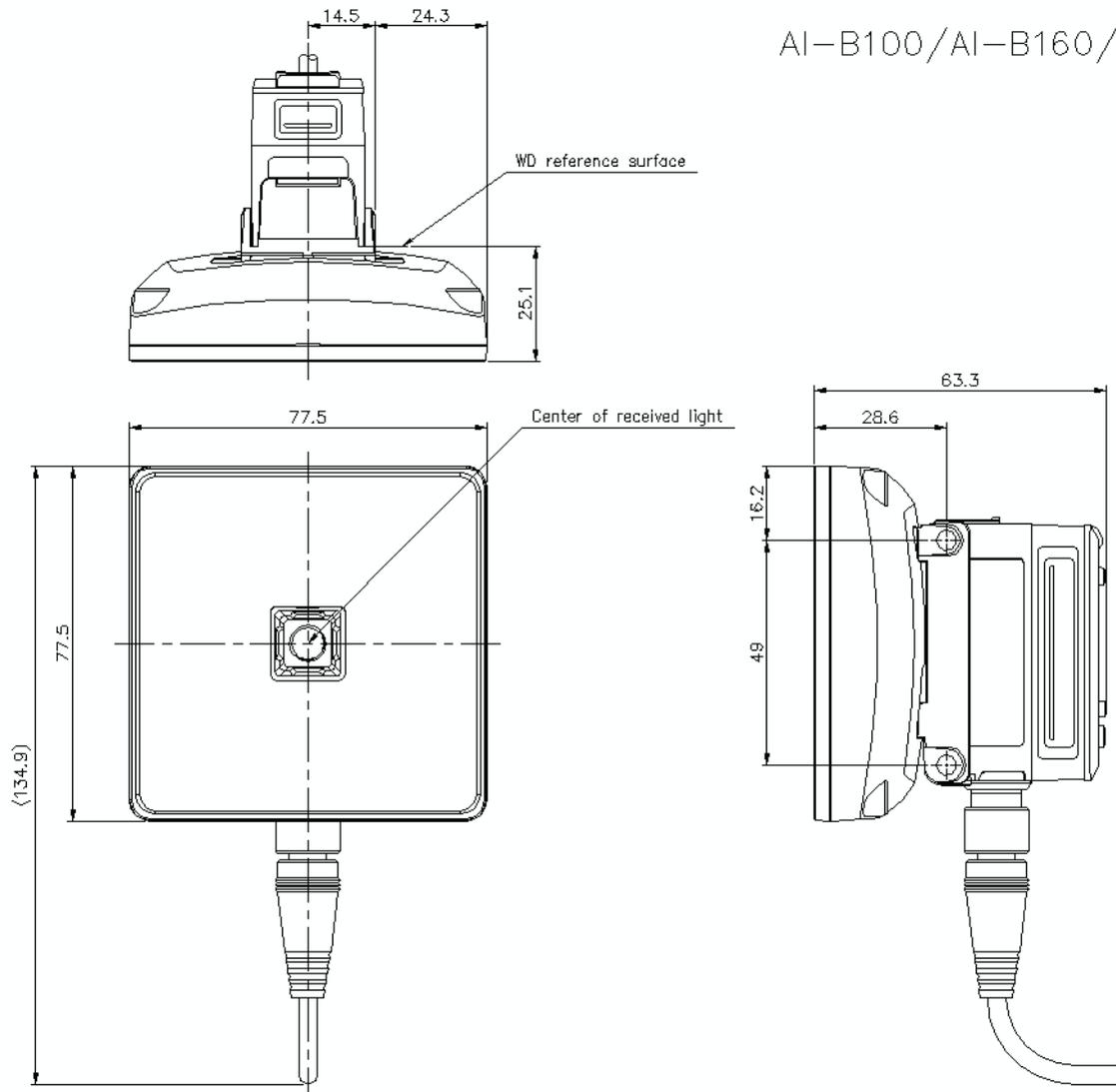
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AI-B050/AI-B100(L-shaped)



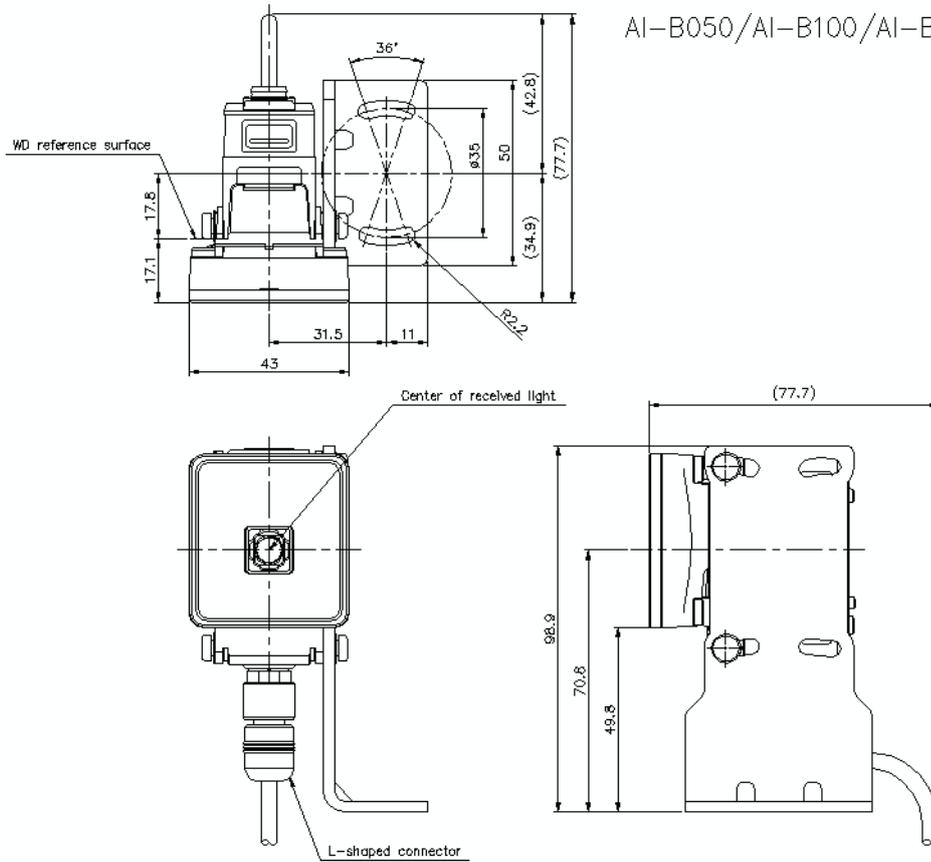
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AI-B100/AI-B160/AI-D32B



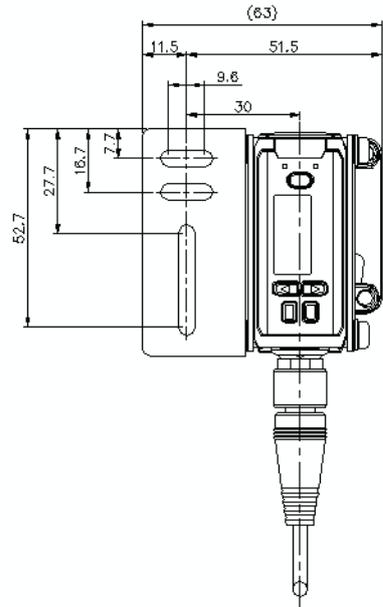
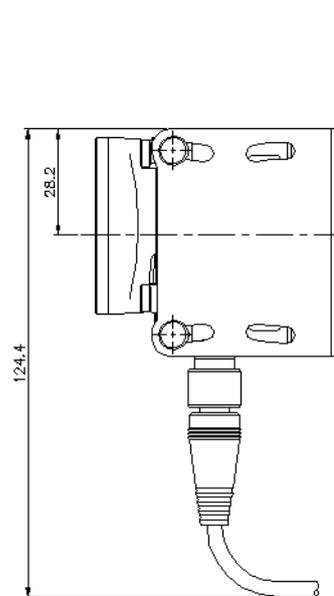
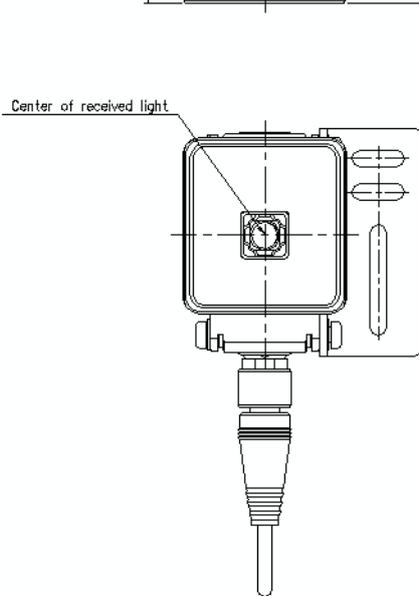
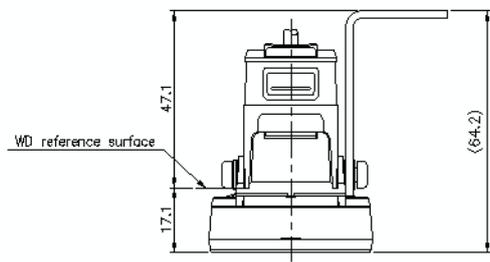
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AI-B050/AI-B100/AI-B160/AI-D16B/OP-88114



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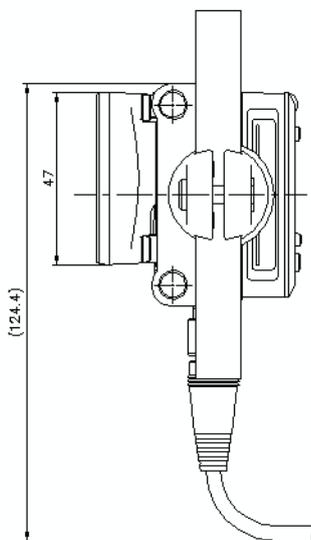
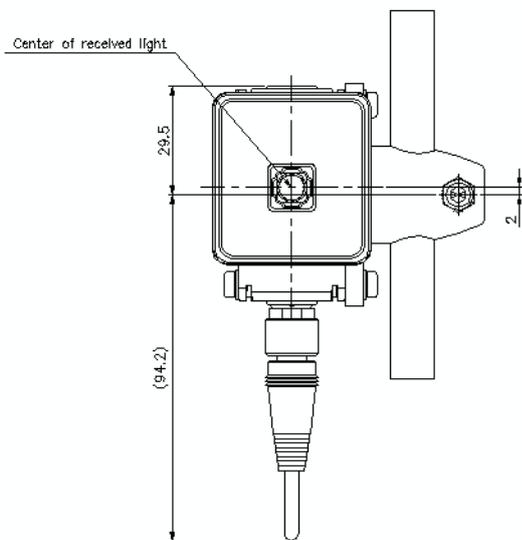
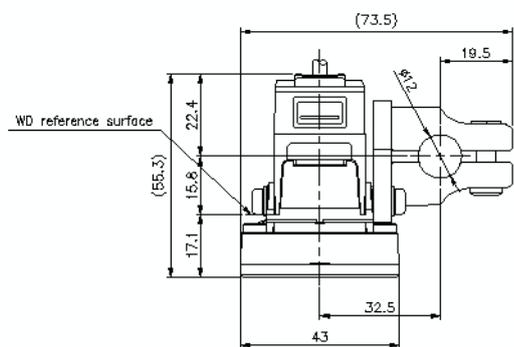
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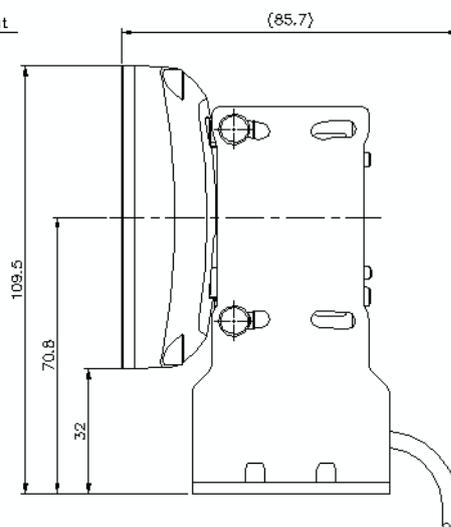
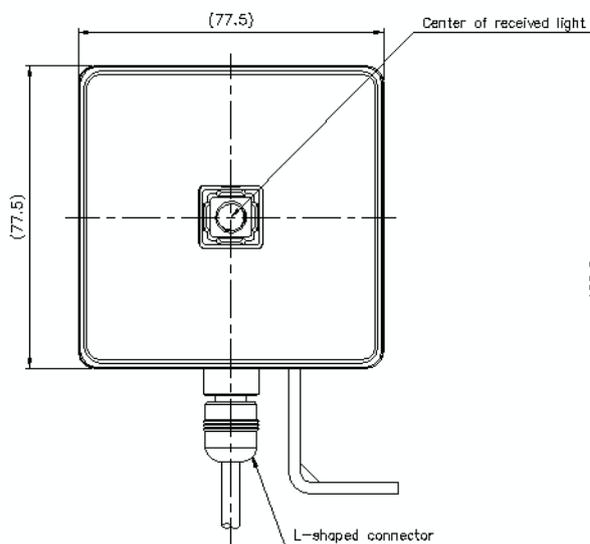
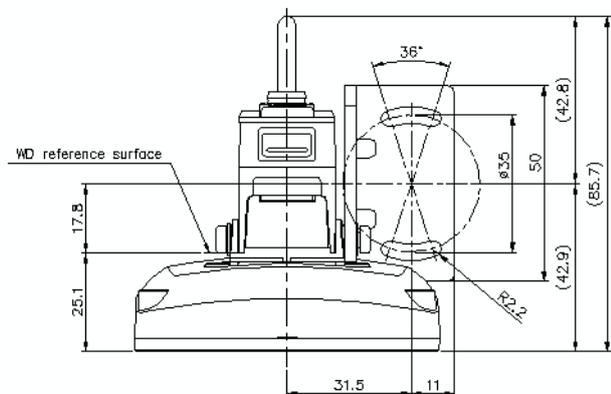
AI-B050/AI-B100/AI-B160/AI-D16B/OP-88116

* A pole (φ12) is not included in OP-88116.

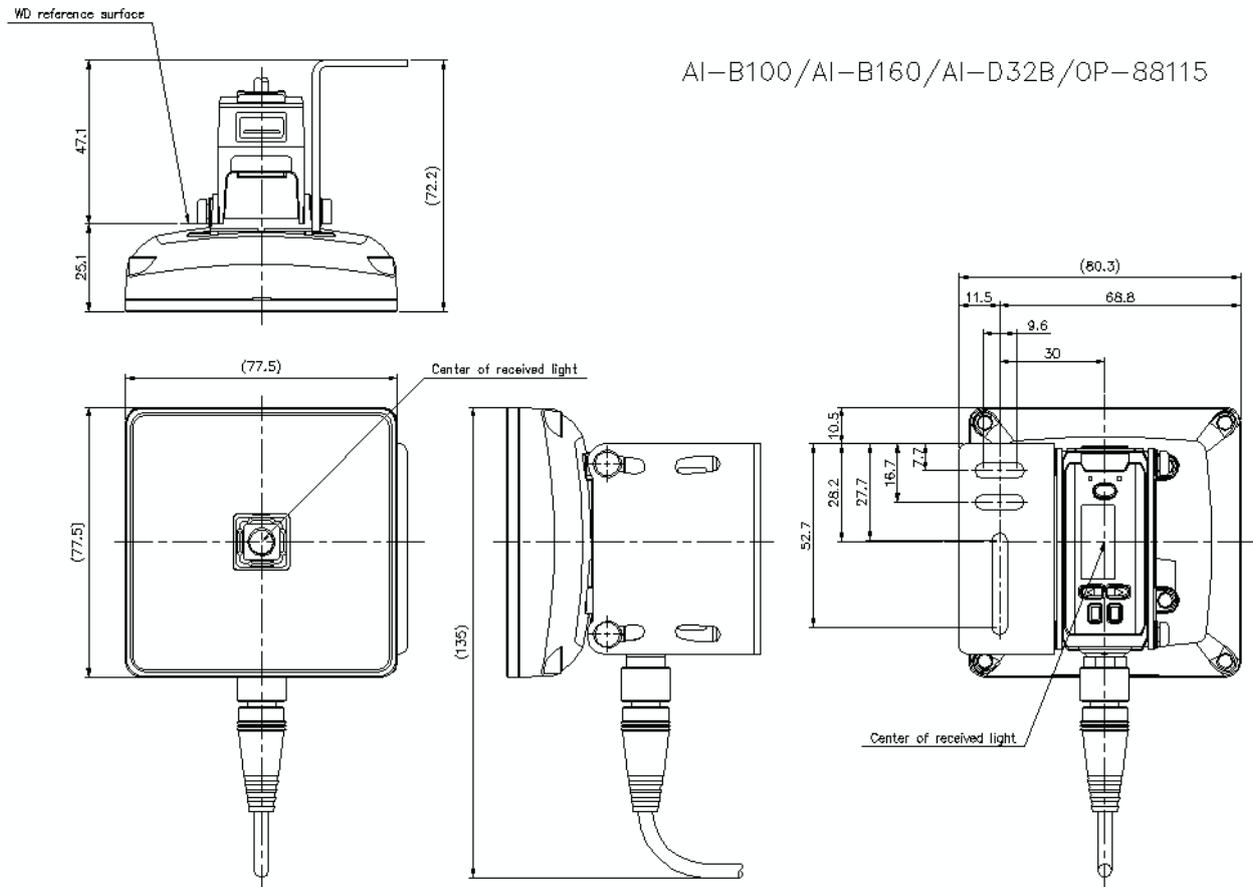


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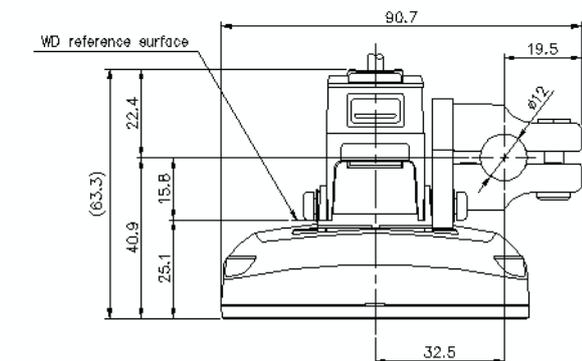
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AI-B100/AI-B160/AI-D32B/OP-88116

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