



AI-H100

Separate Amplifier Model: Sensor Head, 100 mm



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

Specifications

Model		AI-H100
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
Indicators		1 (green/red/orange)
Environmental resistance	Enclosure rating	IP67 ^{*2}
	Ambient temperature	-10 to +50 °C 14 to 122 °F (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z directions
	Shock resistance	500 m/s ² , 3 times in each of 6 directions
Materials		Main unit case: Zinc die-cast/PBT; Front cover: Acrylic (hard coat); Cable: PVC Operation indicator: PPSU; Polarized filter case: POM
Weight		Approx. 70 g (including polarized filter)

^{*1} When positioned in the midpoint of the installation distance range.
^{*2} Except when polarized filters or dome filters are mounted.

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

ai-h050_h100_dimension_01.gif

Technical drawing of the AI-T1030/ AI-T1100 sensor assembly, showing dimensions and labels for the top, side, and front views.

Top View Dimensions:

- Overall width: 36.8
- Distance from left edge to center of received light: 11.3
- Distance from center of received light to right edge: 12.3
- Distance from left edge to center of received light (alternative measurement): 20
- Distance from center of received light to right edge (alternative measurement): 8.1
- Distance from left edge to center of received light (alternative measurement): 8.2
- Distance from center of received light to right edge (alternative measurement): 0.3
- Distance from left edge to center of received light (alternative measurement): 20.6
- Distance from left edge to center of received light (alternative measurement): 1.7
- Distance from center of received light to right edge (alternative measurement): 3.2
- Distance from center of received light to right edge (alternative measurement): 1
- Distance from center of received light to right edge (alternative measurement): 3
- Distance from center of received light to right edge (alternative measurement): 28.7
- Distance from center of received light to right edge (alternative measurement): 1.4
- Distance from center of received light to right edge (alternative measurement): (30.4)
- Distance from center of received light to right edge (alternative measurement): 28
- Distance from center of received light to right edge (alternative measurement): 34.4
- Distance from center of received light to right edge (alternative measurement): 36.8

Side View Dimensions:

- Overall height: 26.2
- Distance from top edge to center of received light: 14.5
- Distance from center of received light to bottom edge: 26.2
- Distance from top edge to center of received light (alternative measurement): 14.5
- Distance from center of received light to bottom edge (alternative measurement): 26.2

Front View Dimensions:

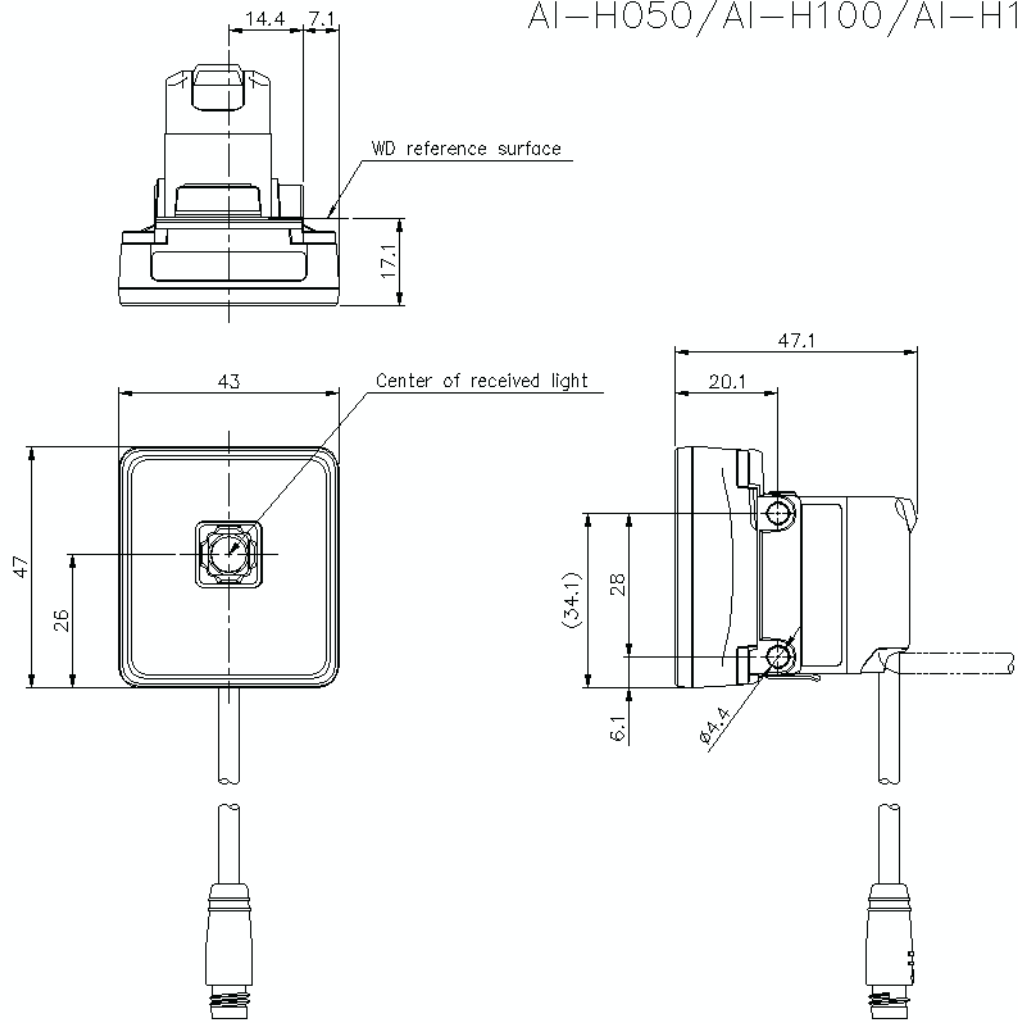
- Overall length: 145
- Distance from front edge to center of received light: 26.2
- Distance from center of received light to back edge: 145
- Distance from front edge to center of received light (alternative measurement): 26.2
- Distance from center of received light to back edge (alternative measurement): 145

Labels:

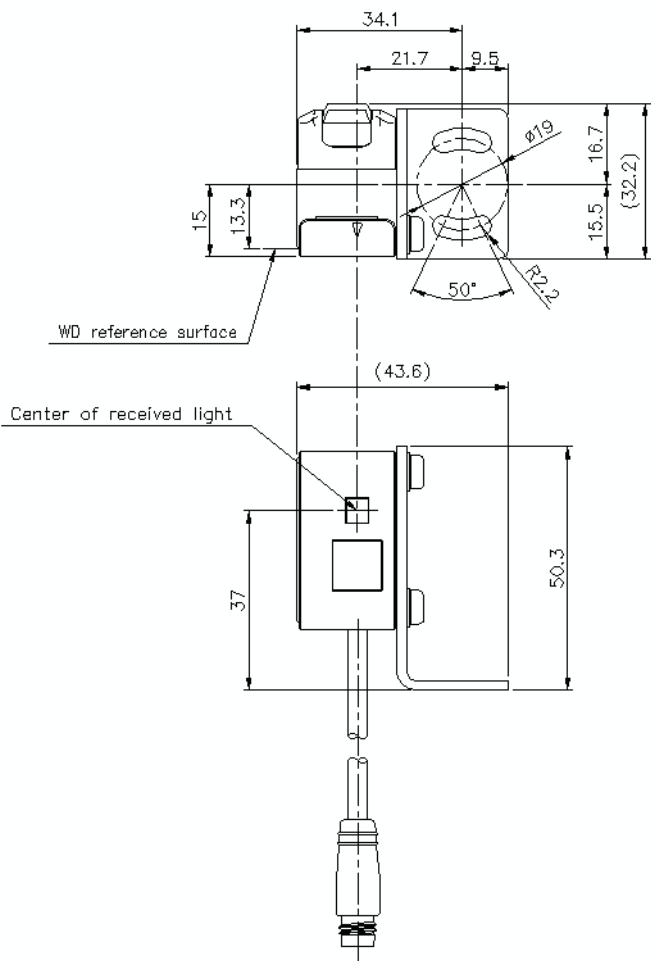
- Indicator
- A positioning guide for light receiving center
- WD reference surface
- 2xM4 Through hole $\phi 4.2$ Depth:1.5 (Both sides)
- Center of received light

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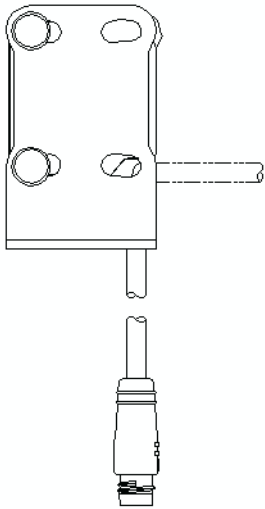
AI-H050/AI-H100/AI-H160/AI-D16H



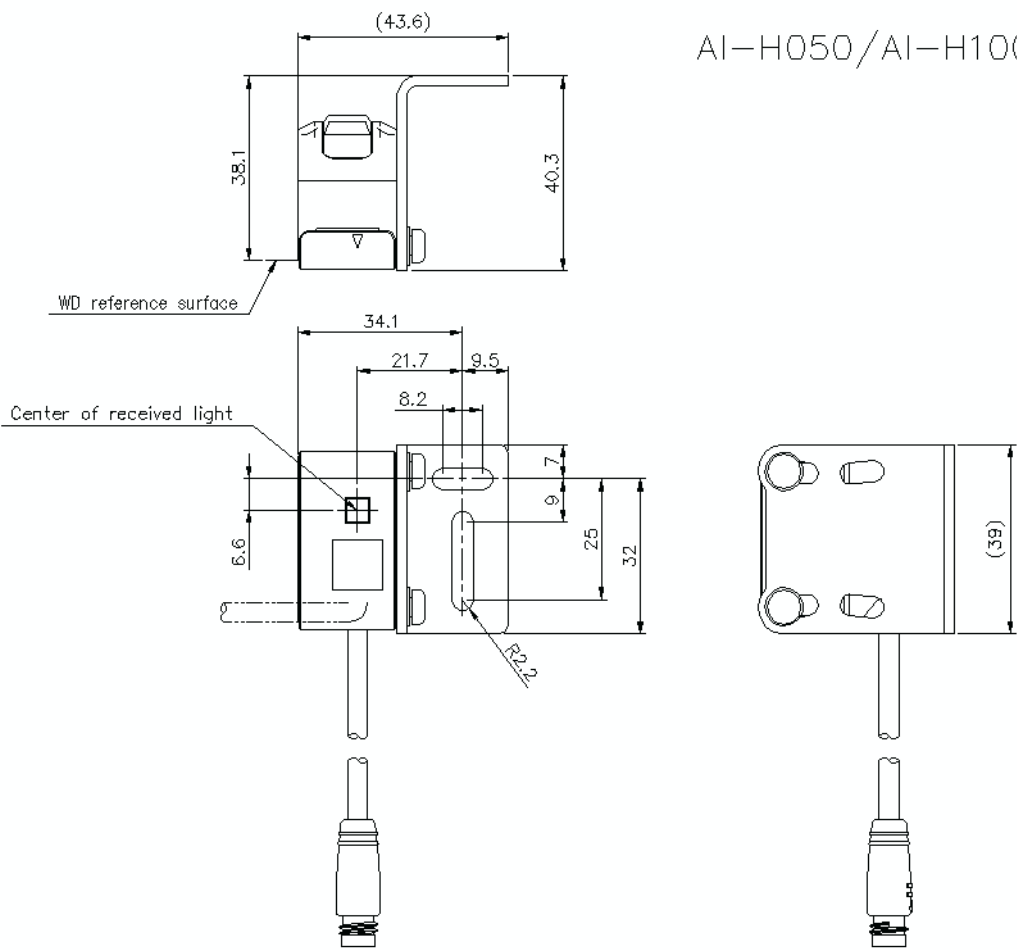
aih050_100_88104_dimension_01.gif



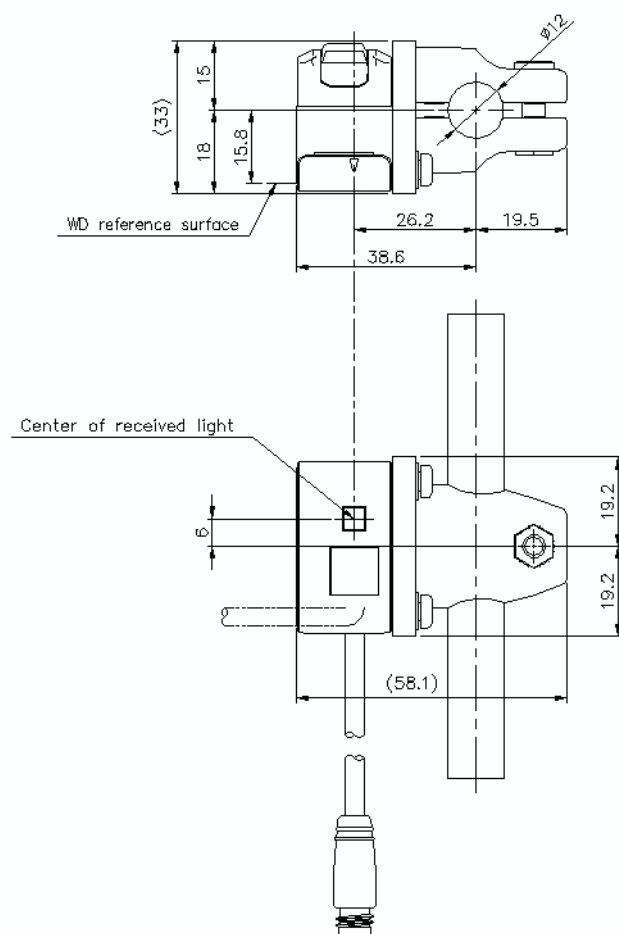
AI-H050/AI-H100/OP-88104



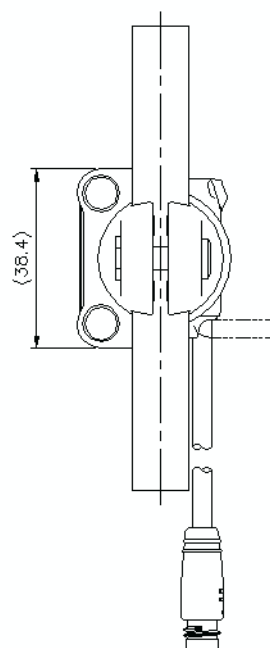
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aih050_100_88106_dimension_01.gif

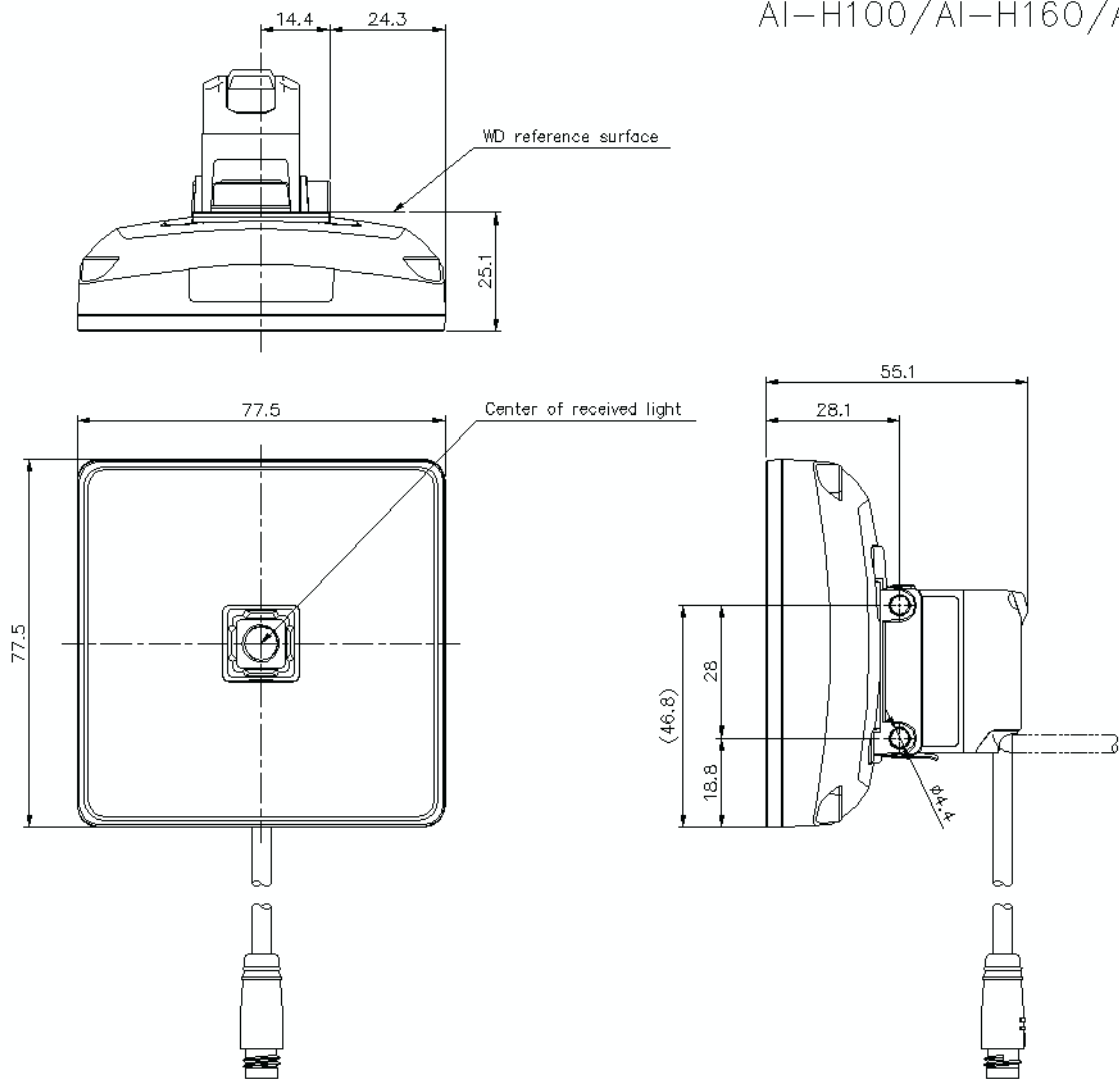


AI-H050/AI-H100/OP-88106

* A pole ($\phi 12$) is not included in OP-88106.

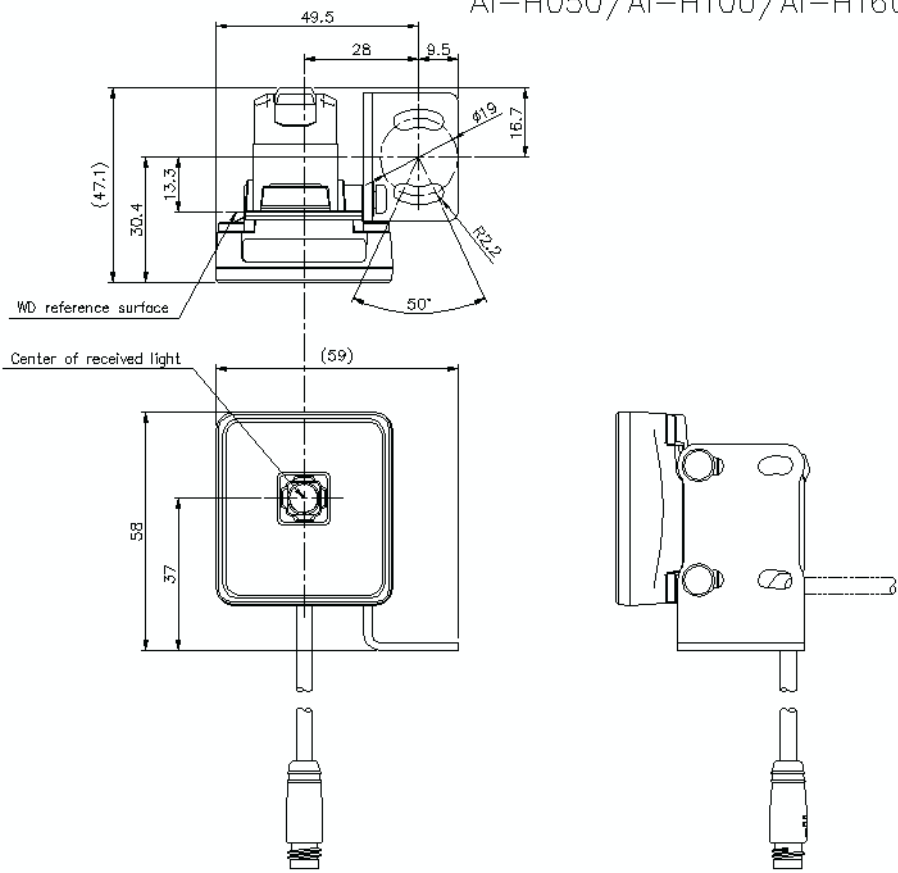
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AI-H100/AI-H160/AI-D32H



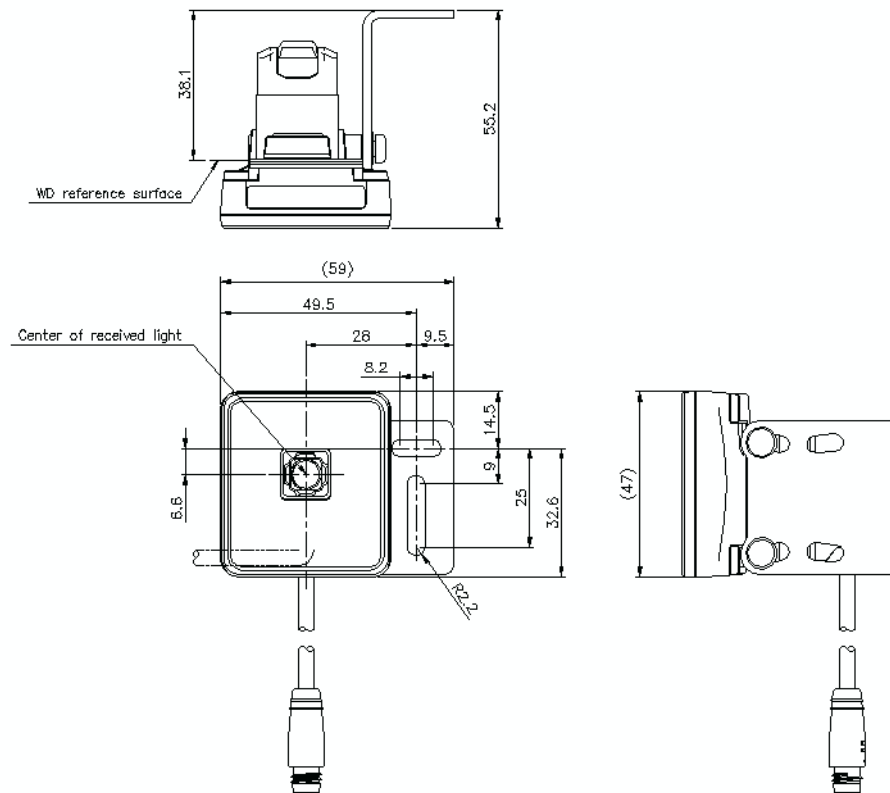
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AI-H050/AI-H100/AI-H160/AI-D16H/OP-88104

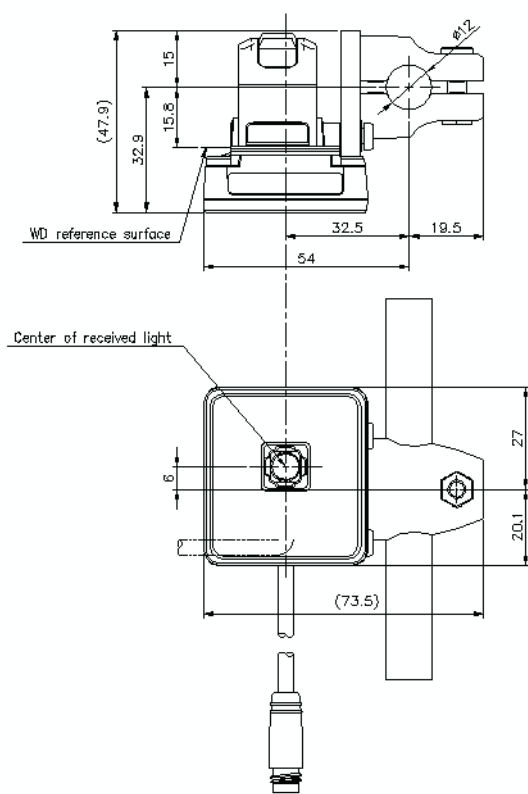


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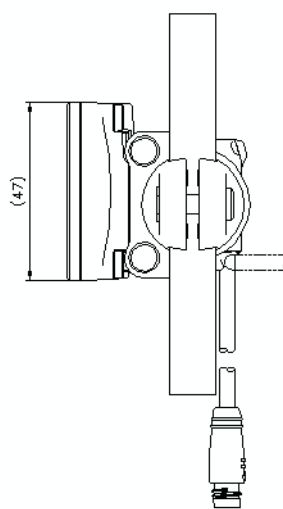
AI-H050/AI-H100/AI-H160/AI-D16H/OP-88105



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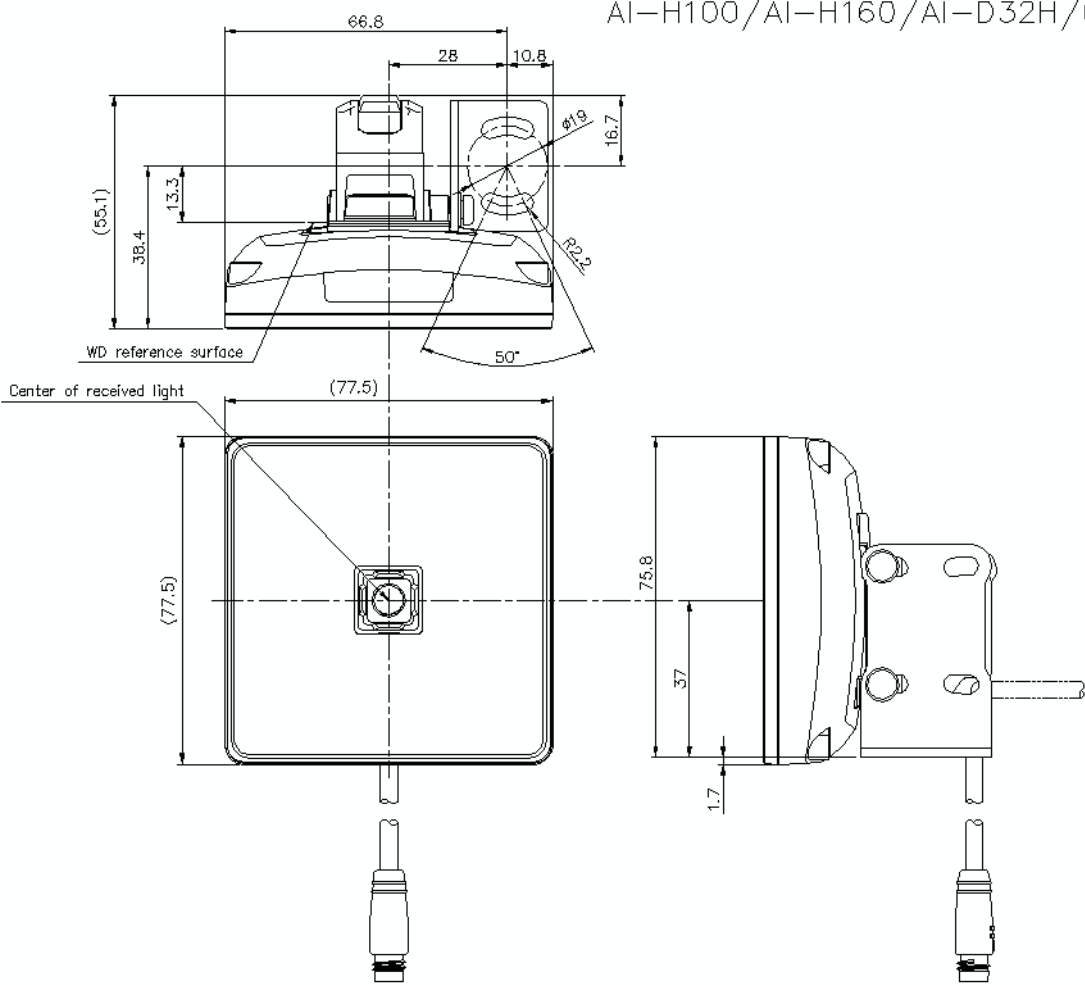


AI-H050/AI-H100/AI-H160/AI-D16H/OP-88106

* A pole ($\phi 12$) is not included in OP-88106.

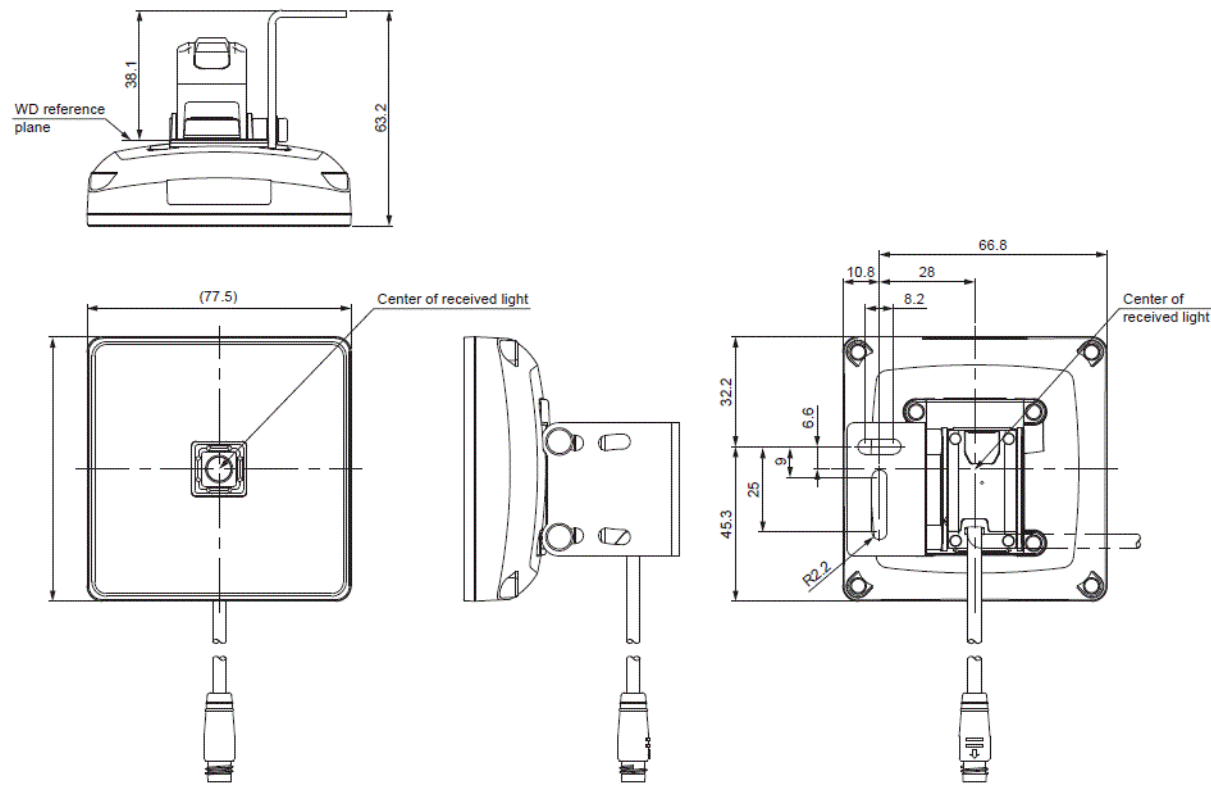
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AI-H100/AI-H160/AI-D32H/OP-88104

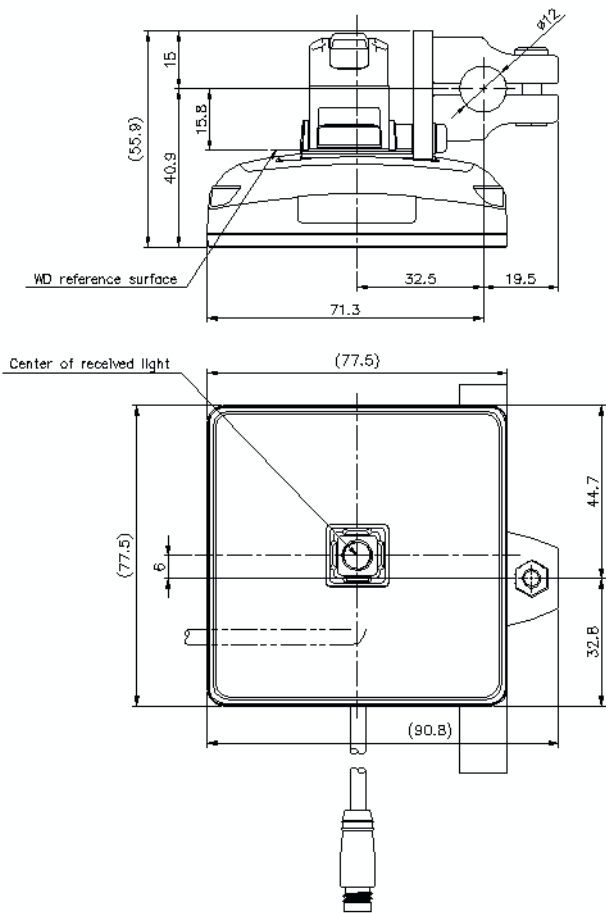


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■ AI-H100/H160 + AI-D32H + OP-88105



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AI-H100/AI-H160/AI-D32H/OP-88106

* A pole (φ12) is not included in OP-88106.

