FD-XS8E

Sensor head Rated flow range 8 L/min

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

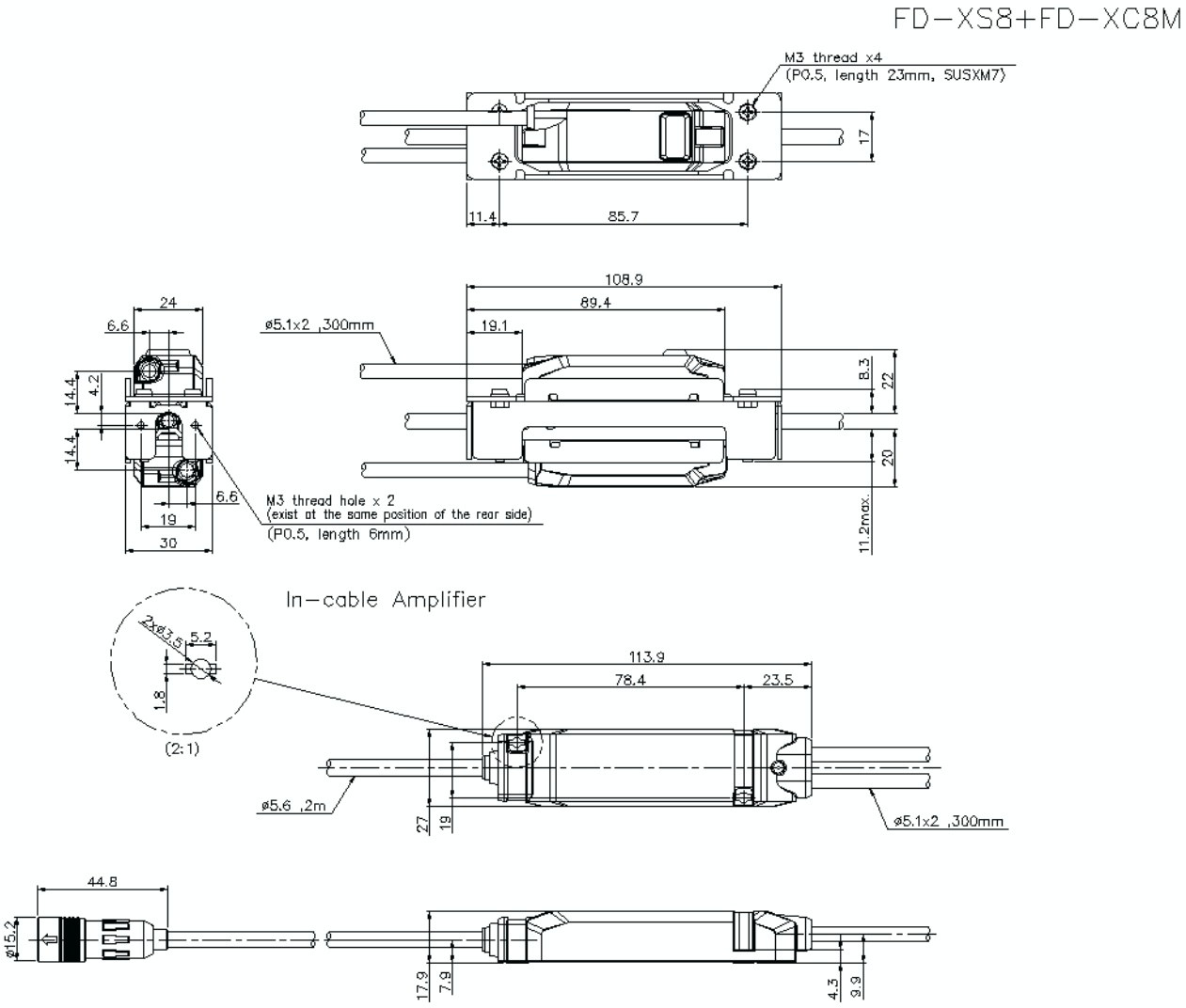
Specifications

Model			FD-XS8E
Supported pipe materials			Metal pipes, Plastic pipes (soft/hard) *1
Supported fluids			Liquids (water, oil, adhesive, grease, chemical solutions, etc.) *1
Supported fluid temperature			0 °C (no freezing on the pipe surface) to 100 °C 32 to 212 °F (Pipe surface temperature)
Clamp set model	Plastic pipe/tube attachment		FD-XC8R1, FD-XC8R2, FD-XC8R3
	Metal pipe attachment		FD-XC8M*2
Maximum rated flow rate			Outer diameter of pipe ø 6 0.24 ", 1/4 " (6.35 mm) : 3000 mL/min Outer diameter of pipe ø 8 0.31 ": 8000 mL/min
Zero cut flow rate			50 mL/min*3 (variable, default)
Display resolution	Instantaneous flow rate		1/10 mL/min (Displayed on controller)
Repeatability			Response time 50 ms: ±20 % of RD Response time 500 ms: ±15 % of RD
Hysteresis			Variable
Display method			Status indicator
Environmental resistance	Enclosure rating		IP65/IP67 (IEC60529) , IP68G (JIS C0920) *4
	Ambient temperature		-10 to 60 °C 14 to 140 °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 each for X,Y,Z direction
	Shock resistance		50 G 11 ms 3 times each for X,Y,Z direction
Material	Sensor head		Head body: PPS/PPSU, relay amplifier: PPS, cable: PVC, controller connector: PPS/PBT/POM
	Clamp set	For plastic pipe	Body, fixing screw: PPS, detection surface: special rubber, pipe support rubber: FKM, sensor head fixing screw: SUSXM7
		For metal pipe	Metal: SUS304/SUSXM7, detection surface: special rubber, clamp support rubber: FKM, sensor head fixing screw: SUSXM7
Weight			Approx. 250 g

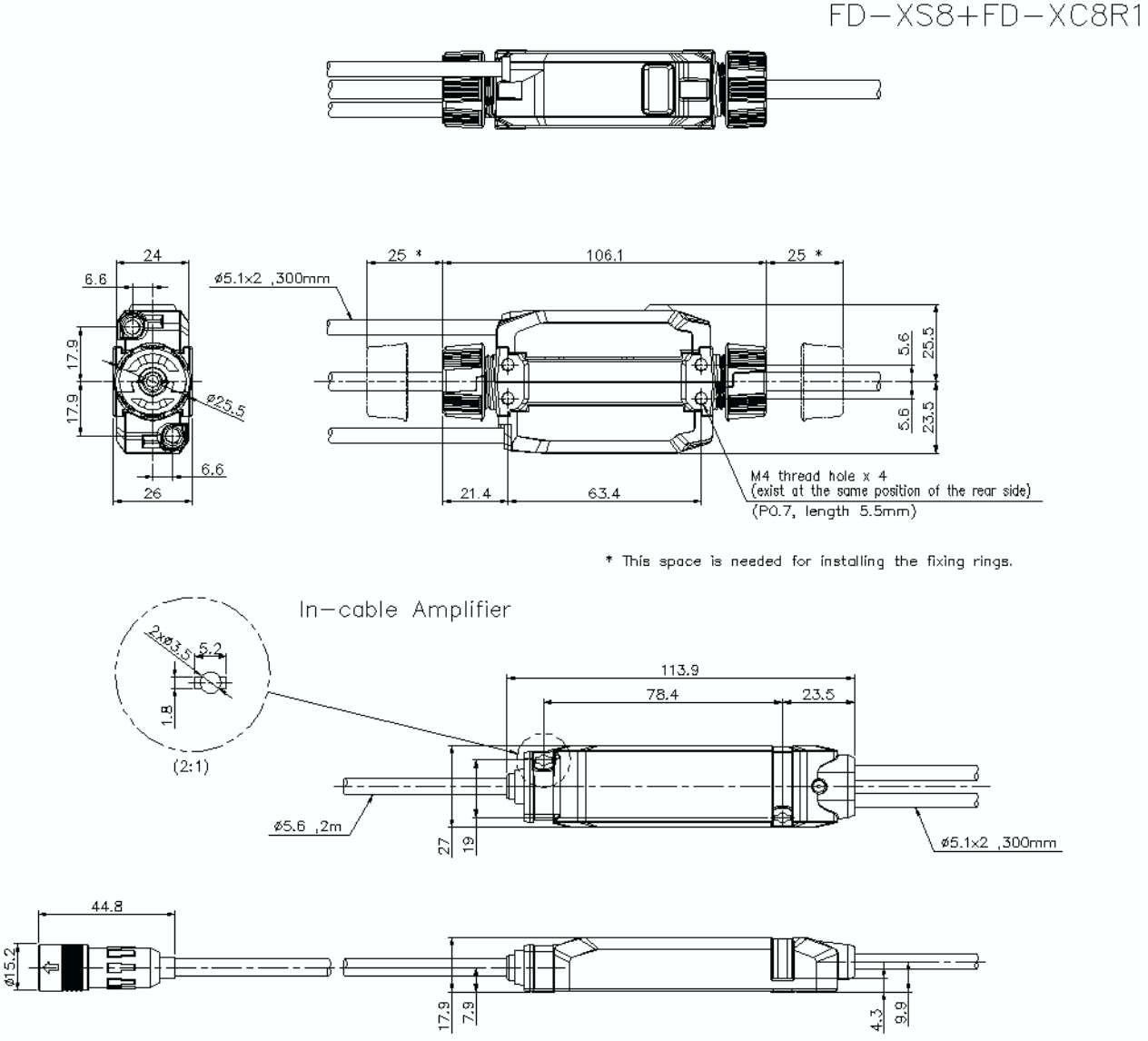
*1 Liquid must allow for the passage of an ultrasonic pulse, as well as not contain large air pockets or excessive bubbles. Readings may become unstable depending on the type of pipe.
*2 When using stainless steel or iron pipes, the ideal pipe wall thickness is as follows, FD-XS1E: approx. 0.5 mm 0.02", FD-XS8E: approx. 1 mm 0.04", FD-XS20E: approx. 1 0.04" to 2 mm 0.08". FD-X signal strength and stability will decrease as the thickness of the pipe wall increases or decreases from the suggested size.
*3 The zero cut flow rate can be changed in the settings. When using the unit with a low flow rate range, perform an origin adjustment when the fluid is not moving if you change the zero cut flow rate.
*4 The connector part of the sensor head cable is IP65/IP67.

Dimensions

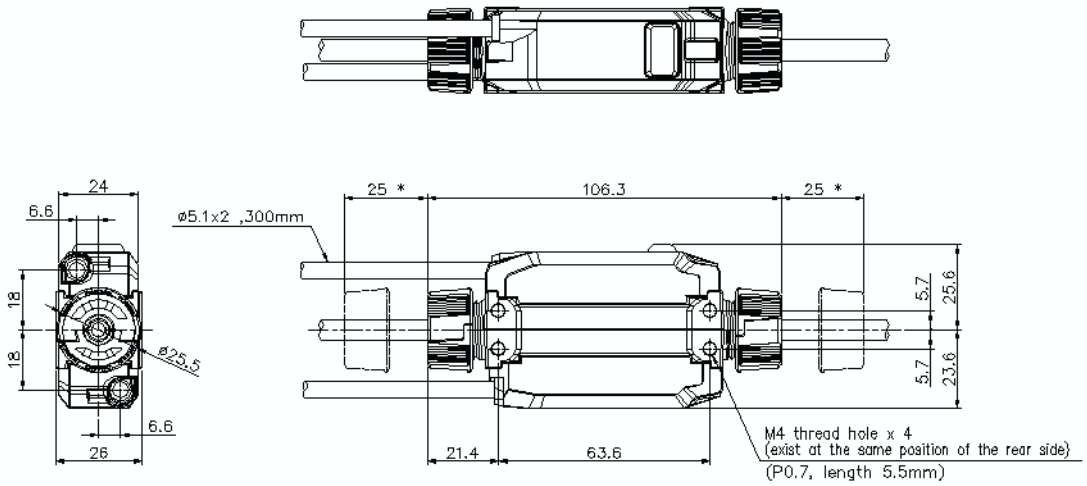
* Download CAD file or product manual for larger image/text and more detail.



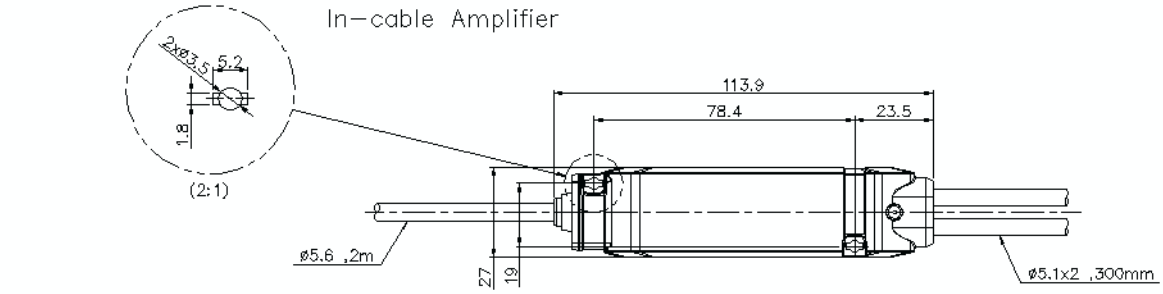
FD-XS8+FD-XC8R1

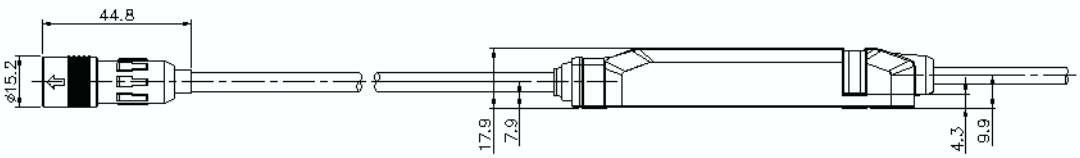


FD-XS8+FD-XC8R2

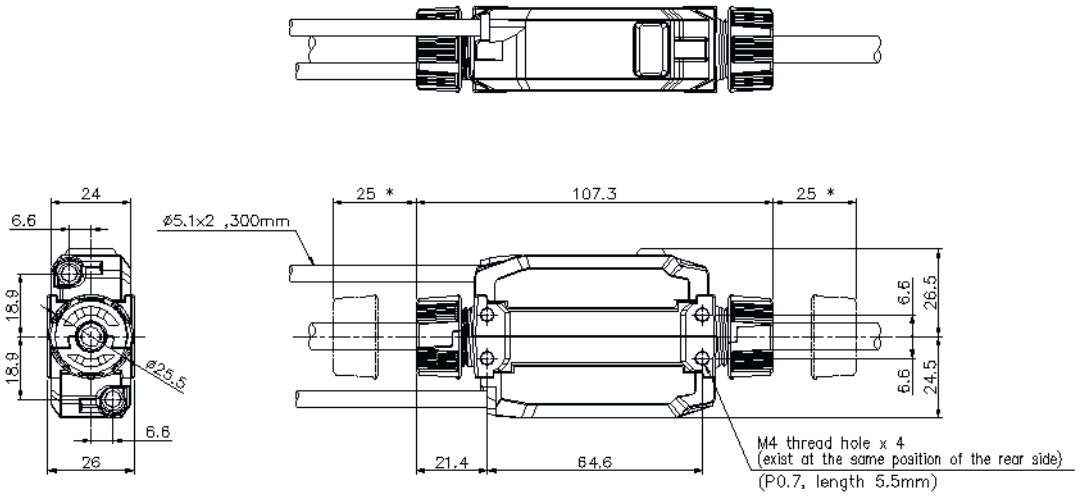


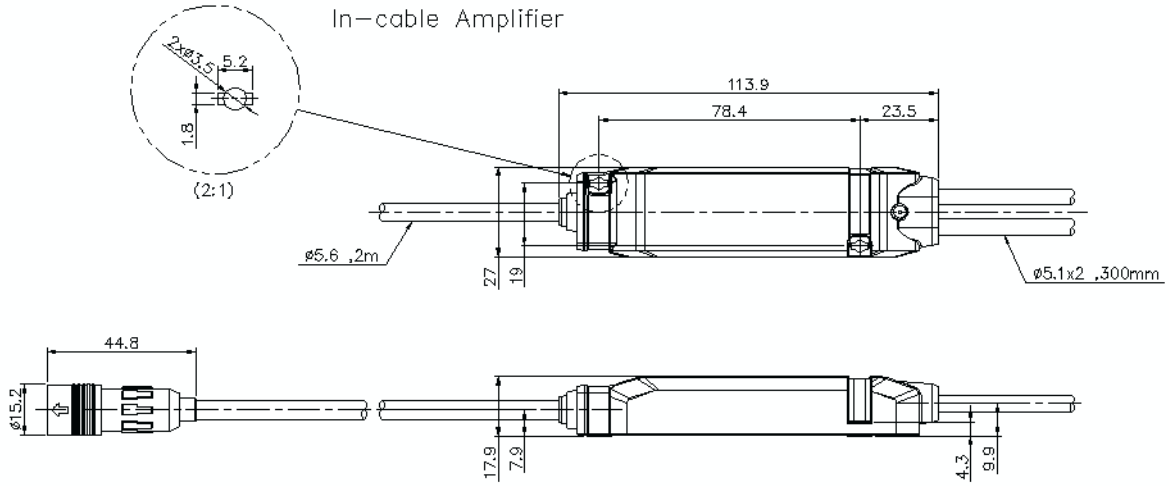
* This space is needed for installing the fixing rings.





FD-XS8+FD-XC8R3





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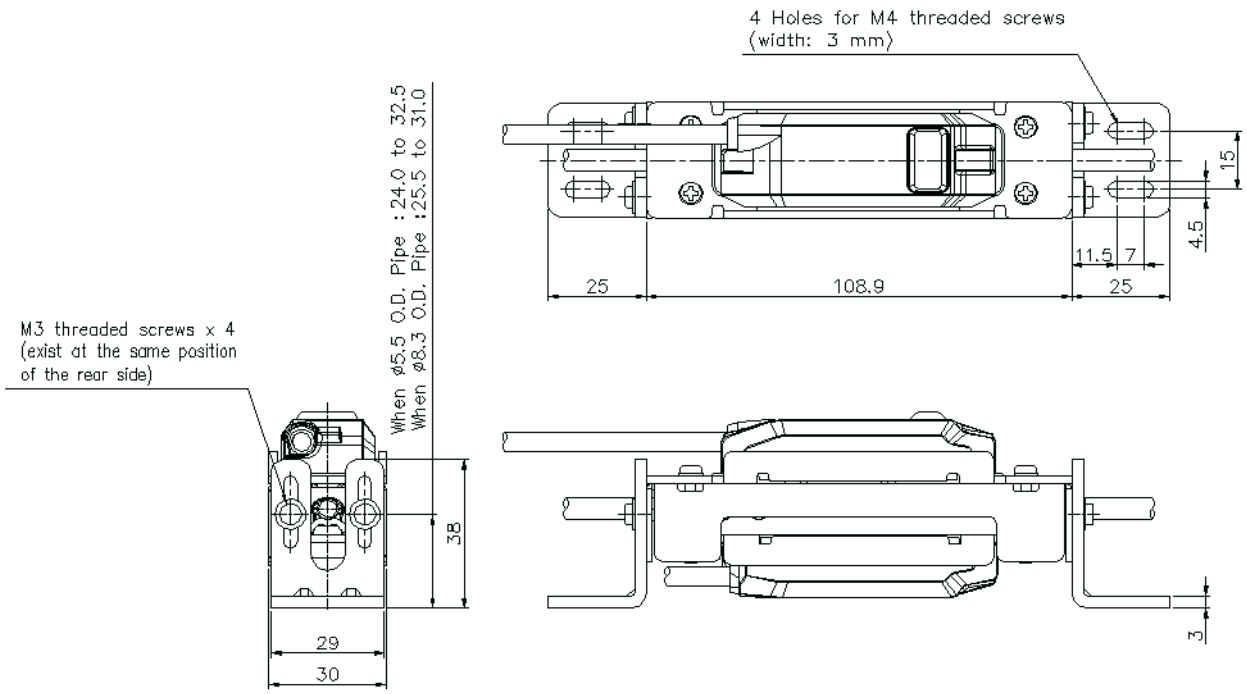
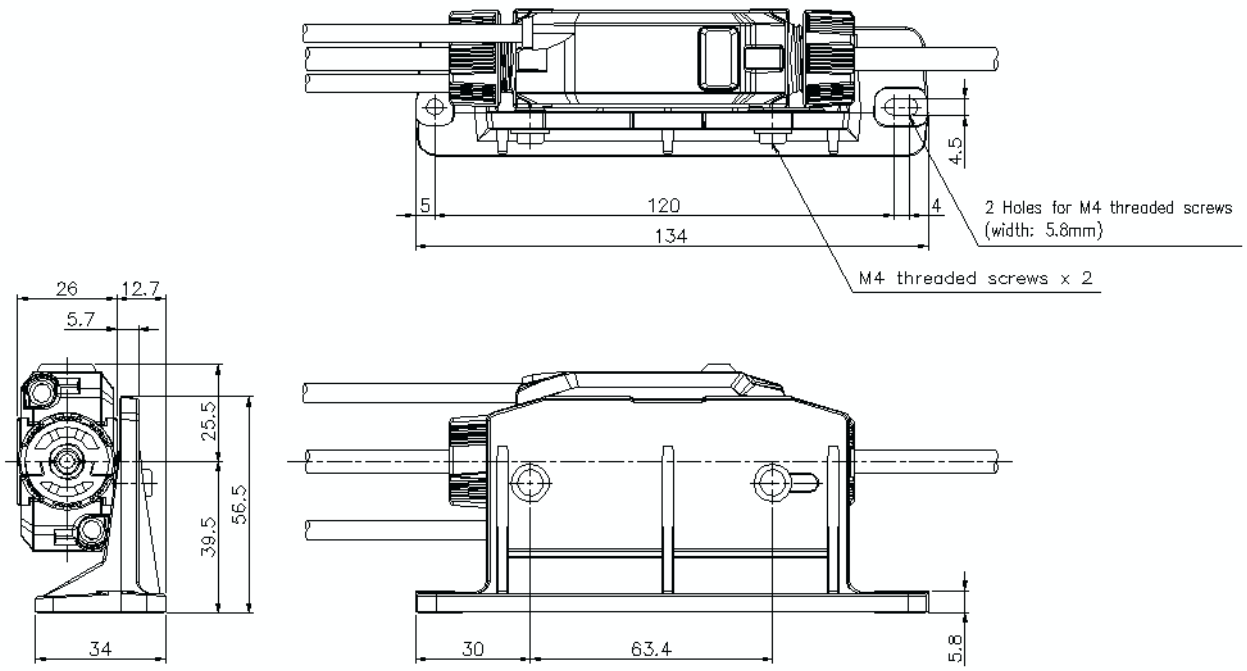


FD−XS8+FD−XC8R1+OP−88294



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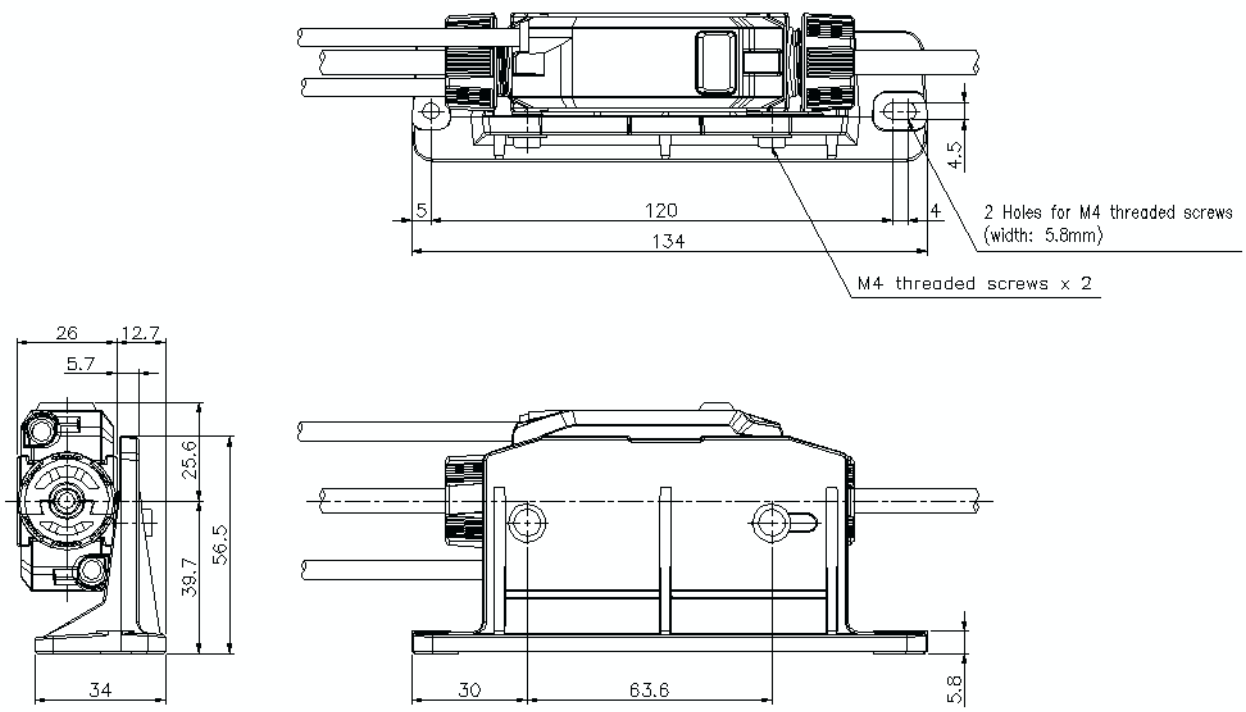

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