



FD-ECA1C

Amplifier unit M12 connector type



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

Specifications

Model		FD-ECA1C
Type		M12 connector type*1
Number of control outputs		2
Number of analog outputs		1
Number of external inputs		
Power supply cable		Pigtail, 100 mm 3.94", M12 connector, 8 pins of which 6 are used pins used
Response time (90% response)		50 ms/100 ms/250 ms/1 s/5 s (selectable, initial value: 250 ms)*2
I/O	Control outputs 1 and 2	Instantaneous flow/Accumulated flow/Alarm output/Pulse output NPN/PNP setting switchable, 100 mA or less total for two outputs, residual voltage: 2.5 V or less
	Analog output	Instantaneous flow 4-20 mA/0-20 mA (switchable), load resistance: 260 Ω or less
	External input	Zero flow/Origin adjust./Reset total Short-circuit current: 1.5 mA or less
Network compatibility		IO-Link*3
Number of connectible units		—
Protection circuit		Protection against reverse power connection, output overcurrent, output surge, reverse output connection, and incorrect head cable wiring
Power supply	Power voltage	24 VDC +20%/-10% (including ripple), Class2/LPS
	Power consumption	1680 mW*4excluding load current
Environmental resistance	Ambient temperature	−10°C to +55°C 14 to 131°F (no freezing)*5
	Relative humidity	35%RH to 85%RH (no condensation)
	Vibration resistance	10 to 500 Hz, power spectral concentration: 0.816 G ² /Hz, XYZ axes
	Shock resistance	100 m/s ² , 16 ms pulse, XYZ axes, 1000 times for each axis
Material		Main unit: polycarbonate, FG terminal: copper/iron
Weight		Approx. 42 g 1.48 oz

*1 Ensure the cable length is 30 m 98.4' or less (20 m 65.6' or less when using IO-Link) for the M12 connector type.

*2 5 ms is added to the analog output response time and the response is set to 63%.

*3 IO-Link: Compatible with specification v1.1/COM3 (230.4 kbps).

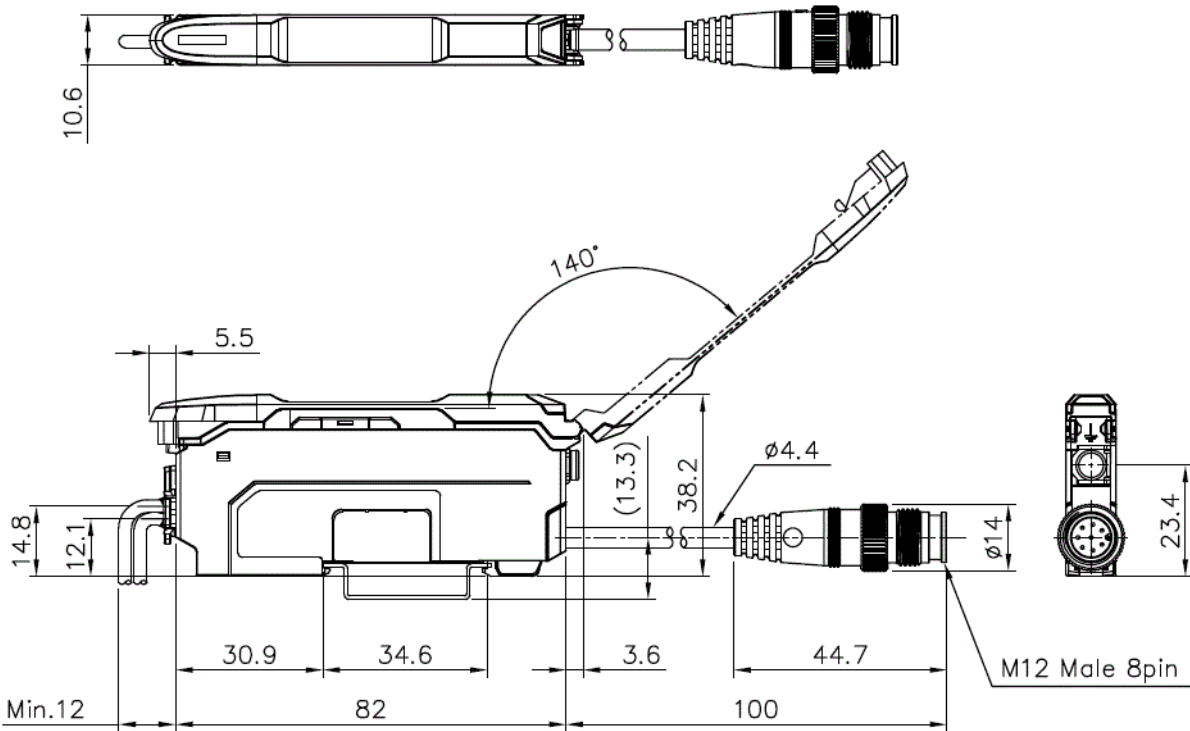
*4 182 mA or less with the load included.

*5 The ambient temperature to use varies depending on the number of adjacent cable type/M12 connector type units or depending on the number of expansion zero line type units added to the system. For 1 or 2 units, the temperature is 55°C 131°F. For 3 to 5 units, the temperature is 50°C 122°F. For 6 to 8 units, the temperature is 45°C 113°F. The prescribed values for the ambient temperature assume that the amplifier unit has been mounted on a DIN rail installed on a metal surface. Exercise special care when installing the product in an airtight space.

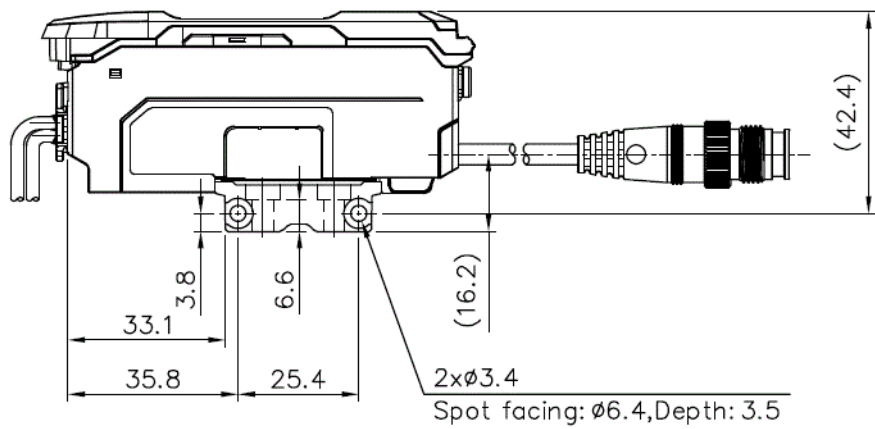
Dimensions

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

FD-ECA1C/EPA1C



When the mounting bracket (OP-88245) is attached



Back side of bracket

