Deviation correction sensor - Inductor

Description:

The OSMT60 series needs to be used with the OSC1 controller with a push-button teaching function.A variety of working modes are available, and there are multiple output types at the same time.Applicable to pharmaceuticals, packages installation, lithium battery, photovoltaic, non-standard equipment, etc.

Features:

- High precision, split inductor
- Use it with a controller to adapt to more scenarios and output more modes

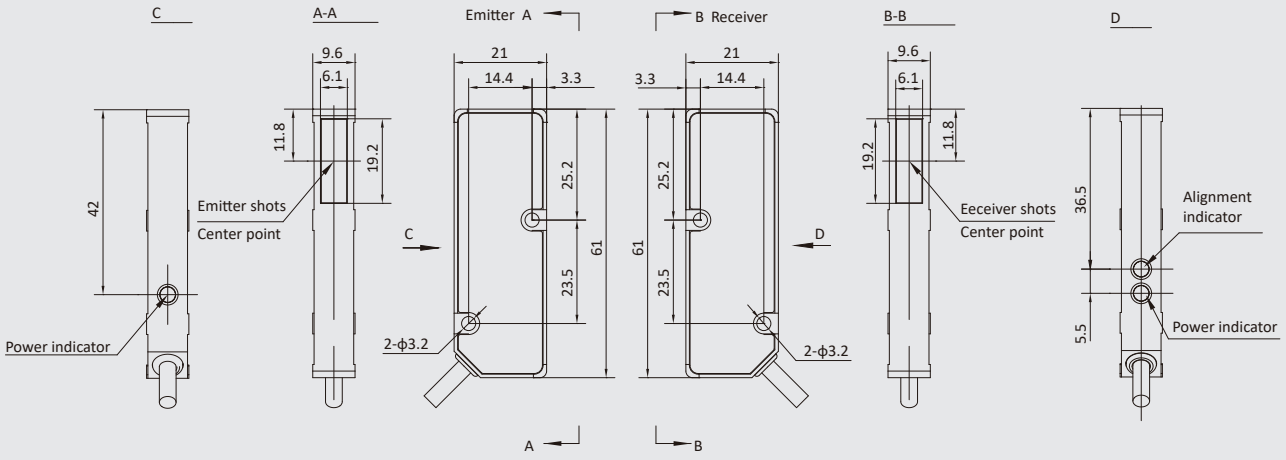
Type:

Detection mode	Type	Distance	Light source	Repeatability	Connection
Opposed	OSMT60-S3006-0.3-Q8 (Emitter)	300mm	Laser	±5μm	M8 connector, 4-pin
	OSMT60-E3006-0.3-Q8 (Receiver)	300mm	— —	±5μm	M8 connector, 4-pin
	OSMT60-T300 (Emitter+Receiver)	300mm	Laser	±5μm	M8 connector, 4-pin

Technical Data:

Light source	Red laser (655 nm)/class 1
Operating voltage	DC 12 ... 24 V
Ripple voltage	≤ 10%
Supply current	Emitter: ＜ 20 mA, Receiver: ＜80 mA (DC 12 V)
Connection	0.3m cable + M8 connector, 4-pin
linearity	Installation distance 100mm: +0.4%FS (40 um)
Temperature characteristic	±0.02% F.S./ °C
Response time	500 us
Spot size	3x14 mm
Measuring range	Measuring width10 mm
Indicator	Transmitter Power Indicator: Green; receiver indicator: the upper offset red light flashes, the lower offset green light flashes, and the transmitted light is not received at the same time
Protective circuit	Reverse polarity protection, short circuit protection, overload protection
Ambient temperature	-10 ... +50 °C/35~85%RH (No condensation · freezing)
Storage temperature	-20 ... +60 °C/35~85%RH (No condensation · freezing)
Shock resistance	Complex amplitude 1.5 mm 10 ... 50 Hz (2hr X, Y,Z respectively)
Impact resistance	500m/S2 (50G) 3 times X, Y, Z respectively
Protection class	IP50
Housing material	Housing: aluminum alloy, transmitting and receiving lens: glass

Dimensions: (Opposed)



Deviation correction sensor - Controller

Description:

The OSC1 series controller is used in conjunction with the guiding sensor head with a presskey teach-in function.Multiple operating modes are selectable and multiple output types are available.Suitable for pharmaceutical, packaging, lithium battery, photovoltaic, non-standard equipment, etc.

Features:

- The high-precision sensor controller is installed separately
- It supports multiple detection modes and multi-scenario applications
- Equipped with an organic EL display, available in Chinese and English

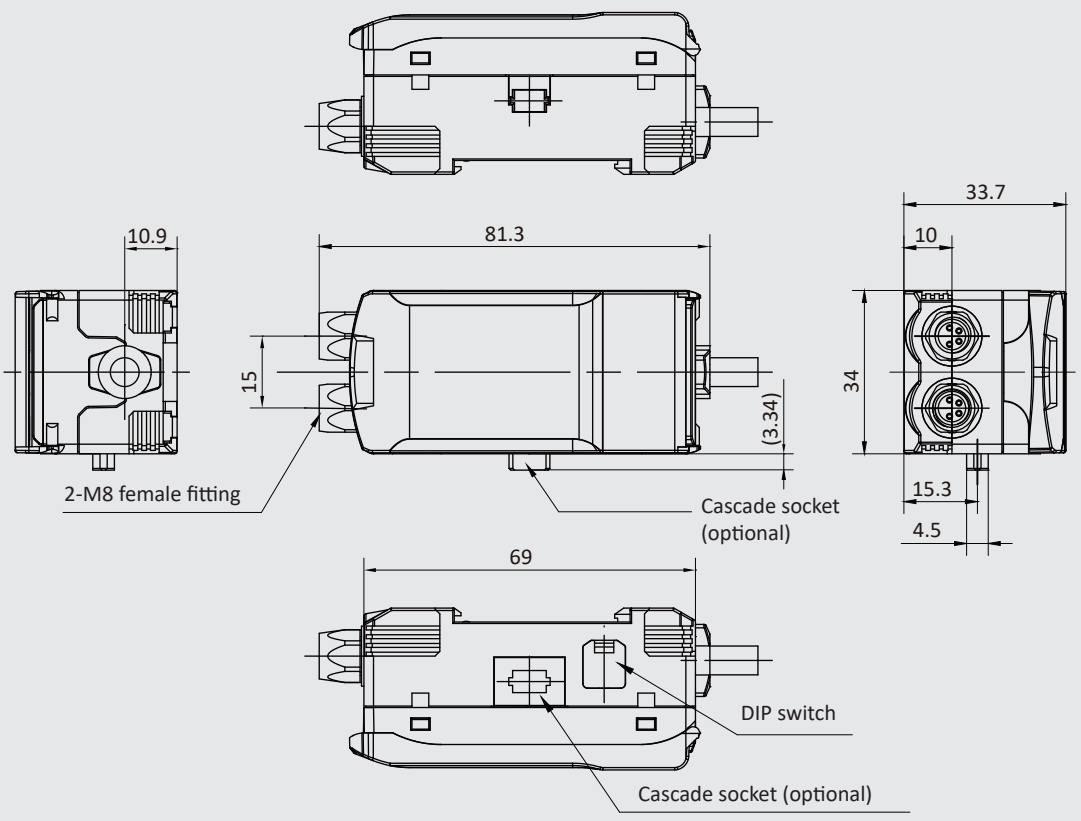
Type:

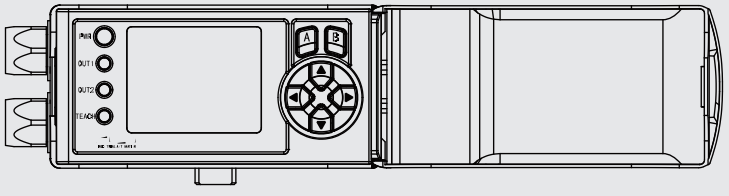
Type	Output	Sensor connection	Sensor communication	Number of induction head connections	Connection
OSC1-UC2B6-Q8/485	NPN/PNP+485	M8 connector, 4-pin	RS-485	MAX.2	2m cable
OSC1-TC2B6-Q8/485	NPN/PNP+485	M8 connector, 4-pin	RS-485	MAX.2	2m cable
OSC1-TC2BLIU6-Q8	NPN/PNP+Analog mA/V	M8 connector, 4-pin	RS-485	MAX.2	2m cable

Technical Data:

Operating voltage	DC12~24V
Ripple voltage	≤10%
Supply current	＜120mA(DC12V)
Sensor connection	Max.2, M8 connector, 4-pin
Sensor communication	RS485
Output type	2 PNP/NPN optional, Max.100mA/DC24V, RS485
	2 output analog current/voltage can be switched, current :4~20mA, voltage :0~10V
Protective circuit	Reverse polarity protection, short circuit protection, overload protection
Sensitivity	Button settings
Display features	Dot-matrix display Chinese/English optional
Indicator	Power indicator: green, output indicator: orange
Ambient temperature	-20...+50°C/35~85%RH (No condensation · freezing)
Storage temperature	-20...+60°C/35~85%RH (No condensation · freezing)
Shock resistance	Complex amplitude 1.5 mm 10 ... 50Hz (2hr X, Y,Z respectively)
Impact resistance	500m/S² (50G) 3 times X, Y, Z respectively
Protection class	IP50
Housing material	PC

Dimensions:





Panel view

Deviation correction sensor - Communication Unit

Description:

The M1-EC6 communication unit module can be connected to the OSC1 series controller EtherCAT network.It can be operated directly on the host computer, and the parameters can be adjusted remotely, which can avoid the inconvenience of manual adjustment.

Features:

- EtherCAT communication is supported
- It can be directly cascaded and rail-mounted

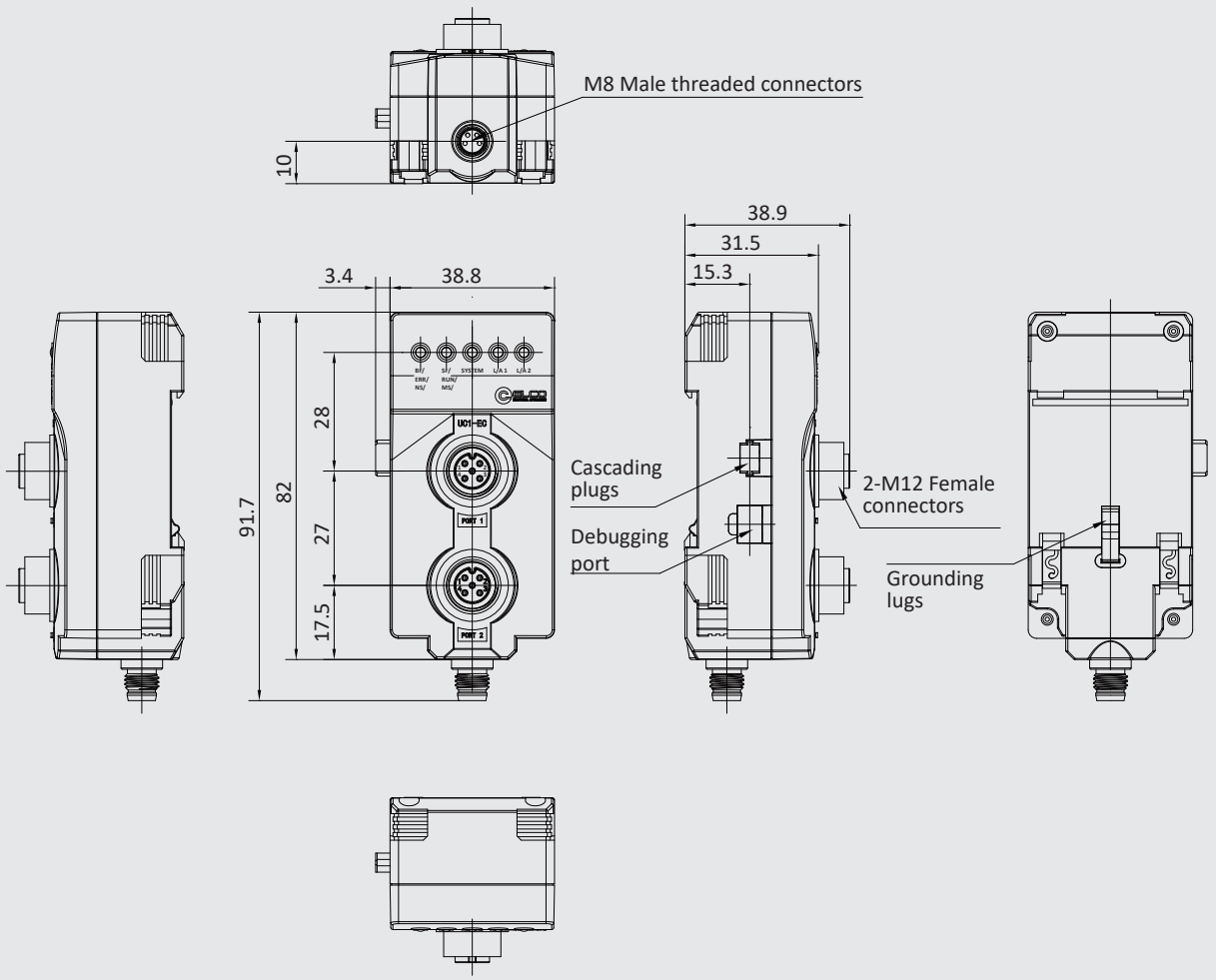
Type:

Type	Communication mode	Transmission speed	Connection port
M1-EC6	EtherCAT	100M Baud	2×M12*LAN+1 cascade port

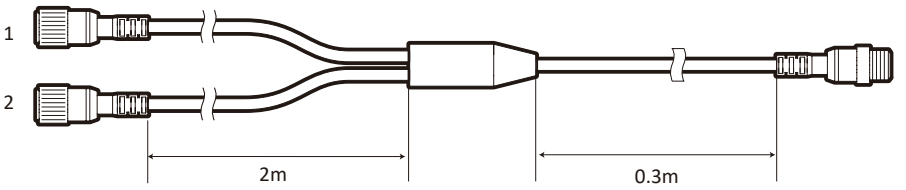
Technical Data:

Operating voltage	DC12~24V
Ripple voltage	≤10%
Supply current	<100mA (DC12V)
Connecting sensor	It can be connected to the OSC1 series controller
Number of connections	Up to 8 controllers can be connected
Connection	Connector, 5-pin
Circuit settling time	<1.5s
Transmission speed	EtherCAT: 100M Baud, EtherNet/IP: 10/100 Mbps
Communication unit	EtherCAT, EtherNet/IP, PROFINET
Indicator	EtherCAT - Power indicator: Green(PWR), Alarm light: red(ERR), Running indicator: Green(RUN), Action indicator: Green(SYSTEM), PORT1 indicator: Green(L/A1), PORT2 indicator: Green(L/A2) EtherNet/IP - Power indicator: Green(PWR), Network status indicator: red/green(NS), Device status indicator: red/green(MS), Action indicator: Green(SYSTEM), PORT1 indicator: Green(L/A1), PORT2 indicator: Green(L/A2)
Protective circuit	Reverse polarity protection, short circuit protection, overload protection
Ambient temperature	-25...+55°C/35~85%RH (No condensation · freezing)
Storage temperature	-40...+70°C/35~85%RH (No condensation · freezing)
Shock resistance	Complex amplitude 1.5 mm 10 ... 50Hz (2hr X, Y,Z respectively)
Impact resistance	500m/S2 (50G) 3 times X, Y, Z respectively
Protection class	IP50
Housing	PC

Dimensions:


M8 Male threaded connectors
10
38.9
31.5
15.3
3.4
38.8
28
82
27
17.5
91.7
Cascading plugs
Debugging port
2-M12 Female connectors
Grounding lugs

ECS-C8.4-0.3-2CO8.4-2/2/P44



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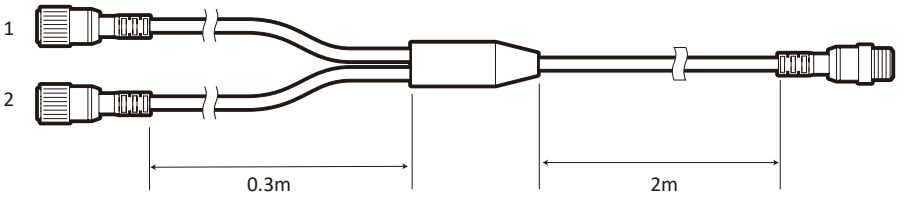
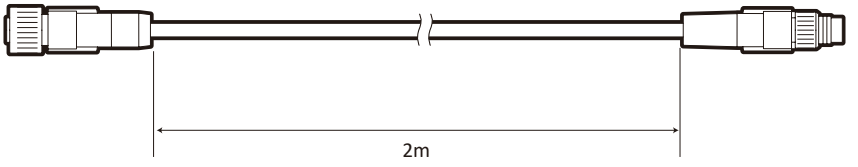


CO8.4-2-C8.4



ECS-ECO8.4/P44