

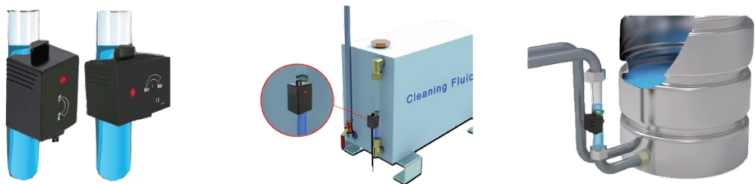
Clamp-on Liquid level Photomicrosensor

[ZX Series]






- Detects various liquids: water, alcohol and beverages.
- For non-metallic pipe use
- Built-in amplifier design to save space
- 3 to 50 mm dia. pipe diameter



Applications

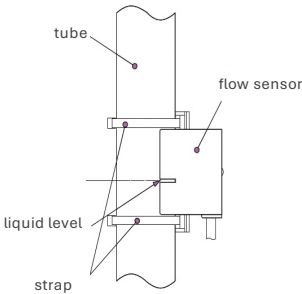


Specifications

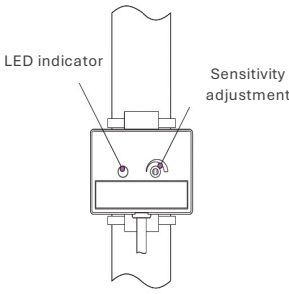
Model	NPN	ZX-06N	ZX-08N	ZX-13N	ZX-26N	ZX-50N
	PNP	ZX-06P	ZX-08P	ZX-13P	ZX-26P	ZX-50P
Appearance						
Supported pipe material	Non-metal pipes					
Detectable fluids	Non high viscosity liquids (water, alcohol, beverages, etc)					
Supported pipe	Diameter	3 to 6 mm dia.	5 to 8 mm dia.	6 to 13 mm dia.	14 to 26 mm dia.	26 to 50 mm dia.
	Thickness	< 0.5 mm	< 1 mm	< 1.5 mm	< 2 mm	< 3 mm
Repeatability	0.2 mm or less					
Hysteresis	0.3 to 5 mm					
Power supply	10 to 30 VDC including Ripple ±10% (P-P)					
Current consumption	12 mA or less					
Control output	NPN / PNP open collector output, 30 V max., 100 mA max., Residual voltage 1 V max. (100 mA or less)					
Protection circuit	Reversed polarity, overcurrent protection, surge absorber					
LED indicator	Red LED					
Ambient temperature	0 to +55°C (No freezing)					
Relative humidity	25 to 85% RH (No condensation)					
Voltage influence	±10% or less within range,					
Vibration resistance	10 to 55 Hz, 1.5 mm double amplitude in the X, Y and Z directions, for 2 hours respectively					
Shock resistance	500 m/s ² 6 times in the X and Y direction					
Enclosure rating	IP66					
Connection method	Cable (2 m)					
Attachment method	Strap					
Material	Heat-resistance ABS					

Correct Usage Instructions

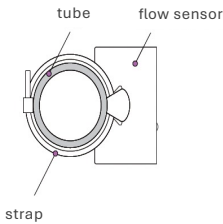
Installation guide



Side view



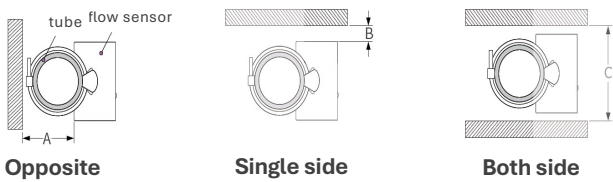
Front view



Top view

Results impact from environment object

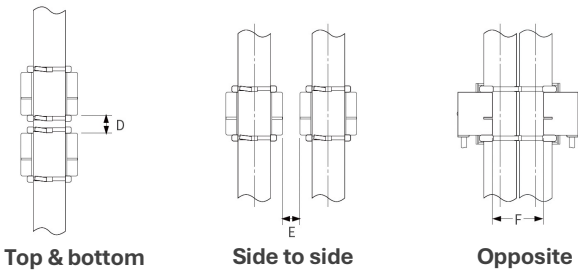
When surrounding objects include conductors such as metals, performance may sometimes be affected. It is essential to set up at a distance greater than the dimensions shown in diagram below.



Description	ZX-13	ZX-26
A	25 mm	25 mm
B	5 mm	5 mm
C	45 mm	40 mm

Mutual interference

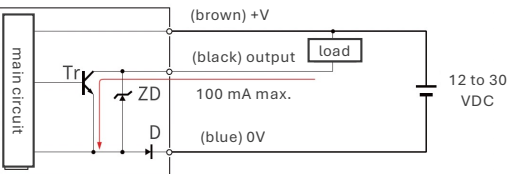
When arranged multiple ZX series flow sensor in series, parallel, or opposing configurations, it is essential to set up at a greater distance than the dimensions shown in diagram below.



Description	ZX-13	ZX-26
A	10 mm	10 mm
B	15 mm	15 mm
C	25 mm	30 mm

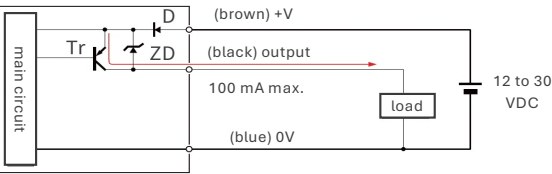
Input / Output Circuits

NPN



Tr: NPN output transistor
ZD: Zener diode for surge absorber
D: Diode for reverse polarity protection

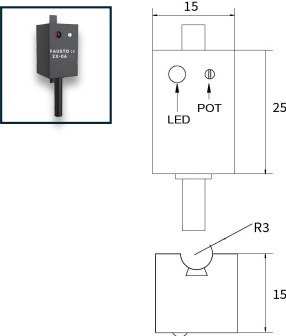
PNP



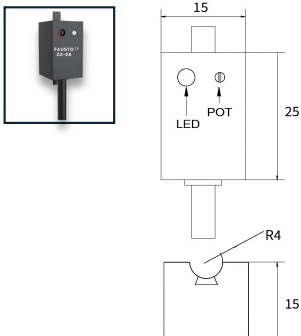
Tr: PNP output transistor
ZD: Zener diode for surge absorber
D: Diode for reverse polarity protection

Dimensions

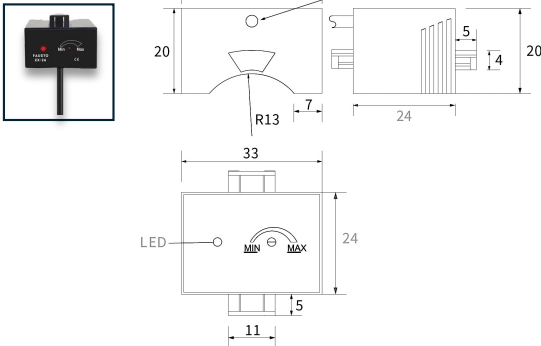
ZX-06



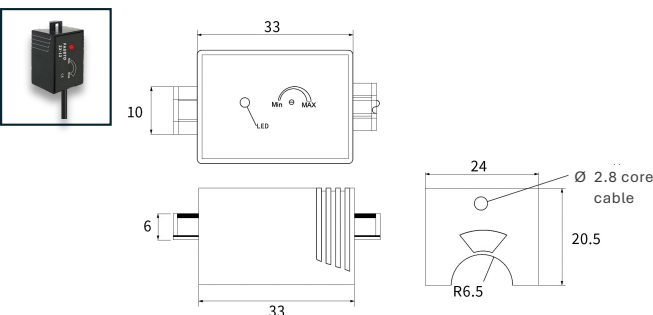
ZX-08



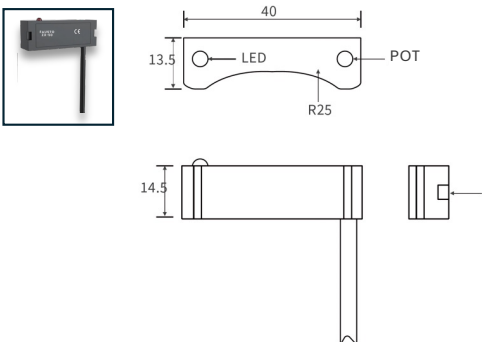
ZX-26



ZX-13



ZX-50



Overview

Code Reader

Handheld Reader

Vision Sensor

Vision System

Fiberoptic Sensor

Photoelectric Sensor

RGB Colour Sensor

Proximity Sensor

Ultrasonic Sensor

Safety Curtain

Ionizer