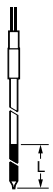


Fluid-level Detection Fiber Units

Diffuse reflective fiber units

Features	Shape	Applicable Amplifier Unit	Sensing distance (mm) ^{*1}	Standard object ^{*2} (min. sensing object: Gold wire)	Model	Permissible bending radius
Fluid contact type: unbendable section L 150 mm, 350 mm (two types); (operating ambient temperature: -40°C to 200°C)		E3X-DA□-S DA□-N E3X-MDA NA□(V) NA□F	---	Pure water at 25°C	E32-D82F1 E32-D82F2	40 mm
Tube-mounting type; Light ON when fluid is present; minimal influence from bubbles and water drops Free-cut		E3X-DA□-S DA□-N E3X-MDA	Applicable tube: FEP, transparent tube, 3.2, 6.4, 9.5 mm ø, wall thickness 1mm		E32-A01	4 mm
Tube-mounting type; light ON when fluid is present; minimal influence from bubbles and water drops Free-cut		E3X-DA□-S DA□-N E3X-MDA	Applicable tube: FEP, transparent tube, 6- to 13 mm ø, wall thickness 1mm		E32-A02	4 mm
Tube-mounting type; dense mounting to detect level differences of 4 mm Free-cut		E3X-DA□-S DA□-N E3X-MDA NA□(V) NA□F	Applicable tube: FEP, transparent tube, 8- to 10 mm ø, wall thickness 1mm ---	---	E32-L25T	10 mm
Teflon ^{*3} -covered Tube-mounting type; unlimited tube diameter; minimal influence from bubbles and water drops Free-cut		E3X-DA□-S E3X-MDA	Applicable tube: Transparent tube Tube diameter: No restriction (Tube must be FEP or material with equivalent transparency)		E32-D36F	4 mm

*1. Sensing distance based on white paper.

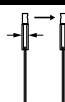
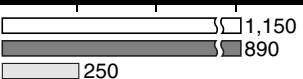
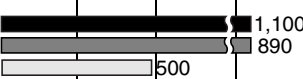
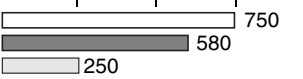
*2. Indicates values for standard mode.

*3. Teflon is a registered trademark of Dupont Company and Mitsui Chemical Company for fluorine resin.

Mapping sensors

Diffuse reflective fiber units

 High resolution mode  Standard mode
 Super long-distance mode  Super high-speed mode

Features	Shape	Applicable Amplifier Unit	Sensing distance (mm) ^{*1}	Standard object ^{*2} (min. sensing object: Gold wire)	Model	Permissible bending radius
Super-narrow vision field; side-view; opening angle: 1.5°; simple adjustment Free-cut	3-mm ø 	E3X-DA□-S	 1,150 890 250	2 mm ø (0.1 mm ø)	E32-A03	1 mm
		DA□-N	 1,100 890 500	2 mm ø (0.01 mm ø)		
		E3X-MDA	 750 580 250	2 mm ø (0.1 mm ø)		
		NA□(V)	---	---		
		NA□F				

*1. Sensing distance based on white paper.

*2. Indicates values for standard mode.