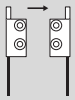
Square shape fiber sensor heads

The fiber heads in square shaped housing provide fast and easy installation on flat surfaces.

- Models with sensing direction in X, Y or Z axis
- 3 or 4mm thick housings for minimal height requirement
- Standard or high-flex fibers

Ordering information

Sensor type	Size (in mm)	Sensing distance (in mm) *1		Order code	
		Standard	High-flex	Standard	High-flex
	15x18x3/ 15x10x4	760	560	E32-T15X 2M	E32-ETS10R 2M
	15x18x3	460	210	E32-T15Y 2M	E32-T15YR 2M
	15x18x3/ 15x9x4	460	480	E32-T15Z 2M	E32-ETS14R 2M
	15x10x3	300	170	E32-D15X 2M	E32-D15XR 2M
	15x10x3	100	40	E32-D15Y 2M	E32-D15YR 2M
	15x10x3/ 13x6x2.3	100	530	E32-D15Z 2M	E32-EDS24R 2M
	24.5x10x3	890	–	E32-A03-1 2M	–
	20.5x2x2	340	–	E32-A04-1 2M	–

*1 Sensing distance measured with E3X-DA-S family in standard mode. In high resolution mode the sensing distance is approx. 30% higher.

Specifications

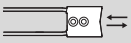
Item		Standard		High flex	
		E32-_15	E32-A	E32-E	E32-_15_R
Permissable bending radius		R25	R10	R1	
Cut to length		Yes			
Material	Head	Aluminium	Brass-nickel plated	Aluminium	
	Fiber	PMMA			
	Sheath	Polyethylene coating			PVC coating
Degree of protection		IEC 60529 IP67	IEC 60529 IP50	IEC 60529 IP67	

Precision detection fiber sensor heads

Highest precision in design and manufacturing of the fibers and focal lenses ensure highest beam and spot accuracy allowing the detection of smallest objects and height differences of less than 100 µm.

- Coaxial fibers with focal lenses for spot diamters of 100 µm
- Through-beam models with highly focused beam and precise optical axis alignment
- Limited reflective models for height difference detection of less than 100 µm

Ordering information

Sensor type	Preferred usage	Size	Key feature	Sensing distance (in mm)*1	Order code
	Precise thin object detection / accurate positioning	dia 3 mm	- High precision optical axis adjustment - Very focused beam	1900	E32-T22S
		dia 3 mm		890	E32-A03 2M
		dia 2 mm		340	E32-A04 2M
	Very small object detection	M6	–	300	E32-CC200 2M *2
		M3	Spot dia 0.5 mm	20	E32-EC31 2M
		M3	Spot dia 0.2 mm	17	E32-EC41 1M + E39-F3B
		M3	Spot dia 0.1 mm	7	E32-EC41 1M + E39-F3A-5
		dia 3 mm	–	150	E32-D32L
		dia 2 mm	–	75	E32-D32 2M *2
		M6	- 90° cable exit - Hexagonal back	170	E32-C11N 2M
		M3		25	E32-C31N 2M
		M3	Small spot	8-25 m adjustable	E32-EC31 2M + E39-EF51
		dia 2 mm	Spot dia 0.5 to 1 mm	6-15 mm adjustable	E32-D32 2M + E39-F3A
		dia 2 mm	Spot dia 0.1 to 0.6 mm	6-15 mm adjustable	E32-C42 1M
	Precision height difference detection / flat surface detection	23x20x9 mm	–	35	E32-A09 2M
		16x18x4 mm	–	7.2	E32-L25L *2
		20x20x5 mm	–	3.3	E32-L25
		18x20x4 mm	Precise spot e.g. for detection of a flat / reflective surface	4	E32-L24L *2
		34x25x8	Vaery precise spot (detection accuracy 100 µm)	2.4	E32-EL24-1 2M
	Object detection in front of background	22.5x17.5x3.8 mm	Wide beam e.g. for object detection on a flat surface	15	E32-L16 2M

*1 Sensing distance measured with E3X-DA-S family in standard mode. In high resolution mode the sensing distance is approx. 30% higher.
*2 A high flex cable version is available. Add 'R' to the order code, e.g. E32-CC200R

Specifications

Item		Through-beam			Diffuse reflective (coaxial)			Limited reflective				
		E32-T22S	E32-A03	E32-A04	E32-C11N E32-C31N	E32-CC200	E32-C42 E32-D32/-D32L E32-EC31/-EC41	E32-EL24-1	E32-L24L E32-L25L	E32-L25	E32-L16	E32-A09
Permissable bending radius		R10	R1	R10	R4	R25		R10		R25		
Cut to length		Yes										
Material	Head	Brass-nickel plated		Stainless steel	Brass-nickel plated		Stainless steel	Brass-nickel plated and aluminium	Polycarbonate	ABS		Aluminium
	Fiber	PMMA										
	Sheath	PVC coating	Polyethylene coating		PVC coating	PVC, polyethylene and polyolefin coating		Polyethylene coating				
Degree of protection		IEC 60529 IP67	IP50		IEC 60529 IP67			IEC 60529 IP50			IEC 60529 IP40	