

Fiber Sensor (Unit)

Screw Mount Type

Fiber Sensor (Unit) / Lenses for Fiber Units

Cylinder, Narrow View Type Through Beam / Reflective Type

Most popular nut-mount type. Also available are Metal Outer Jacket Type for cable disconnection prevention and L-shaped Type for space saving.

Screw Mount Type

RoHS

Through Beam Type

MFUSM-T1 (Standard, Fiber Dim. $\varnothing 1.5 \times 1$)
MFUSM-T2 (Standard, Fiber Dim. $\varnothing 1 \times 1$)

MFUSM-T3 (Type L)

Reflective Type

MFUSM-D1 (Coaxial)

MFUSM-D2 (Coaxial, Metal Outer Jacket)

MFUSM-D3

MFUSM-D4 (Metal Outer Jacket)

MFUSM-D5 (Flex Resistant)

MFUSM-D6 (Coaxial)

Type	Material		Accessory
	Fiber	Head	
MFUSM-T1	PMMA	SUS303	Fiber Cutter, Adapter
MFUSM-T2	PMMA	SUS303	Fiber Cutter, Adapter
MFUSM-T3	PMMA	SUS303	Fiber Cutter, Adapter
MFUSM-D1	PMMA	SUS303	Fiber Cutter, Adapter
MFUSM-D2	PMMA	SUS303	Fiber Cutter, Adapter
MFUSM-D3	PMMA	SUS303	Fiber Cutter, Adapter
MFUSM-D4	PMMA	SUS303	Fiber Cutter, Adapter
MFUSM-D5	PMMA	SUS303	Fiber Cutter, Adapter
MFUSM-D6	PMMA	SUS303	Fiber Cutter, Adapter

Set screw mount type. Narrow opening angle enables detection of smaller workpieces.

Cylinder, Narrow View

MFUCD-T1 (Side View)

RoHS

Part Number	Detection Method	Type	Fiber Dim.	Bending Radius (mm)	Detection Distance (mm)							Unit Price	Volume Discount Rate
					1-HS	2-FS	3-ST	4-LG	5-PL	6-UL	7-EL		
MFUCD-T1	Through Beam Type	$\varnothing 5$	$\varnothing 0.075 \times 151$	R1	520	1500	2100	3300	3600	3600	1000	1 - 5 pc(s)	6 - 10 pcs.

For orders larger than indicated quantity, please check with WOS.

Lenses for Fiber Units

MFUL-T1 (For Through Beam Type)

MFUL-D1 (For Reflective Type)

MFUL-D2 (For Reflective Type)

Type	Material	
	Housing	Lens
MFUL-T1	C3604BD	Glass
MFUL-D1	Aluminum	Glass
MFUL-D2	Aluminum	Glass

Through Beam Type Lenses

Part Number	Detection Method	Applicable Part Number	Service Ambient Temperature	Detection Distance (mm) Using Fiberoptic Sensor MFAD Series							Unit Price	Volume Discount Rate	
				1-HS	2-FS	3-ST	4-LG	5-PL	6-UL	7-EL			
MFUL-T1	Through Beam Type	MFUSM-T1 MFUSM-T2	-40~350°C	360	2000	4000	4000	4000	4000	4000	4000	1 - 5 pc(s)	6 - 10 pcs.

Retroreflective Type Lenses

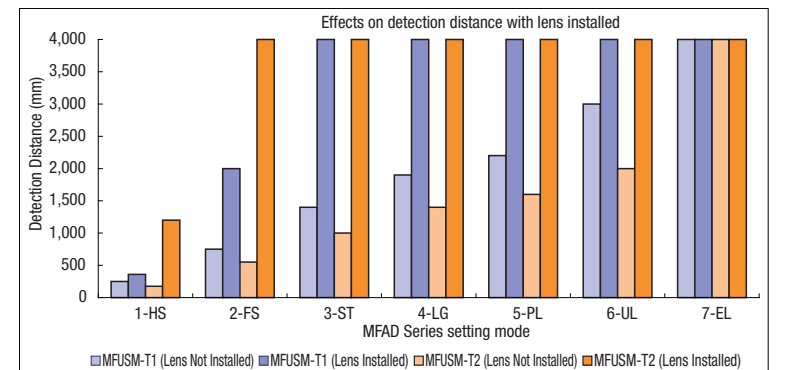
Part Number	Detection Method	Applicable Part Number	Service Ambient Temperature	Spot Dia.	Center Detection Distance	Unit Price	Volume Discount Rate
MFUL-D2	Retroreflective Type	MFUSM-D1 MFUSM-D6	-40~70°C	0.2mm	15mm		

For orders larger than indicated quantity, please check with WOS.

Retroreflective Type Lenses assure small workpiece detection
 Spot Dia. $\varnothing 0.2\text{mm}$ is achieved by combining a micro spot lens MFUL-D1 and a coaxial reflection fiber unit MFUSM-D6. Never fail to detect small workpieces.



Speed and Distance both available using Through Beam Type Lenses
 Through Beam Type Lenses enable the long-distance detection without decreasing the response speed.



Part Number	Detection Method	Lens Installation	Type	Fiber Dim.	Bending Radius (mm)	Detection Distance (mm)							Unit Price	Volume Discount Rate
						1-HS	2-FS	3-ST	4-LG	5-PL	6-UL	7-EL		
MFUSM-T1	Through Beam Type	○	M4	$\varnothing 1.5 \times 1$	R30	250	750	1400	1900	2200	3000	4000	700	
MFUSM-T2		○	M4	$\varnothing 1 \times 1$	R25	175	550	1000	1400	1600	2000	4000	450	
MFUSM-T3		○	M4	-	R25	100	350	750	1000	1300	1400	2500	350	
MFUSM-D1	Retroreflective Type	○	M3	$\varnothing 0.5 \times 1$	R15	30	100	150	225	250	300	500	70	
MFUSM-D2		○	M3	$\varnothing 0.5 \times 1$	R10	10	40	80	130	150	170	180	50	
MFUSM-D3		○	M4	$\varnothing 1 \times 2$	R25	60	200	350	450	550	650	1100	160	
MFUSM-D4		○	M6	$\varnothing 0.25 \times 9$	R15	30	100	200	310	360	410	440	100	
MFUSM-D5		○	M4	$\varnothing 0.25 \times 4$	R4	16	45	80	120	140	180	300	35	
MFUSM-D6		○	M3	$\varnothing 0.25 \times 1$	R15	12	40	60	85	100	110	180	20	

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L-shaped Type enables further space savings.
 L-shaped fiber unit prevents cables from protruding, which enables space-saving wiring. Also avoids cable disconnection by being caught.

Metal Outer Jacket Type
 Tensile strength is increased with fiber cables covered with stainless steel wire mesh, which avoids cable disconnection by being caught. Breakage risk is low since bending radius is flexible as R10mm.

Fiber Sensor glossary is listed on P2047.