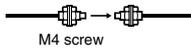
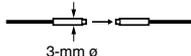


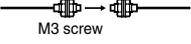
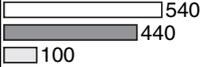
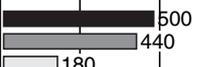
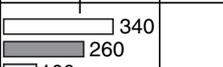
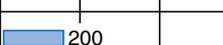
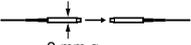
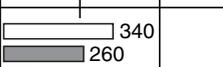
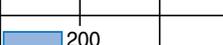
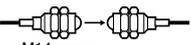
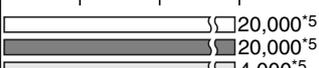
Long-distance
Throughbeam fiber units

High resolution mode Standard mode
 Super long-distance mode Super high-speed mode
 Green light Red light Infrared ray

Features	Shape	Applicable Amplifier Unit	Sensing distance (mm) *1 (Parentheses: With E39-F1 Lens Unit)	Standard object (min. sensing object *2) (Parentheses:)	Model	Permissible bending radius
M4 Free-cut		E3X-DA□-S	1,700 (4,000)*3 1,330 (3,200) 350 (840)	1.4 mm ø (0.01 mm ø)	E32-T11L	25 mm
		E3X-DAG□-S E3X-DAB□-S	150 120 75			
		E3X-DA□-N	1,660 (4,000) 1,330 (3,200) 490 (1,200)	1.4 mm ø (0.02 mm ø)		
		E3X-DAB#-N	150 120 75			
		E3X-DAH□-N	430 350 120			
		E3X-MDA	1,100 (2,600)*3 870 (2,000) 350 (840)	1.4 mm ø (0.01 mm ø)		
		E3X-NA□(V)	700 (2,000)	1.4 mm ø (0.03 mm ø)		
		E3X-NAG□	130 (370)			
		E3X-NA□F	210 (600)	1.4 mm ø (0.5 mm ø)		
3-mm ø Free-cut		E3X-DA□-S	1,700 1,330 350	1.4-mm ø (0.01-mm ø)	E32-T12L	
		E3X-DA□-N	1,660 1,330 490			
		E3X-MDA	1,100 870 350			
		E3X-NA□(V)	700	1.4 mm ø (0.03 mm ø)		
		E3X-NAG□	130			
		E3X-NA□F	210	1.4 mm ø (0.5 mm ø)		

*1. Sensing distance based on white paper.
 *2. Indicates values for standard mode.
 *3. Longer sensing distance by using the lens unit E39-F

High resolution mode Standard mode
 Super long-distance mode Super high-speed mode
 Green light Red light Infrared ray

Features	Shape	Applicable Amplifier Unit	Sensing distance (mm) *1 (Parentheses: With E39-F1 Lens Unit)	Standard object (min. sensing object *2) (Parentheses:)	Model	Permissible bending radius
M3 Free-cut		E3X-DA□-S		0.9 mm ø (0.005 mm ø)	E32-T21L	10 mm
		E3X-DA□-N		0.9 mm ø (0.01 mm ø)		
		E3X-MDA		0.9-mm ø (0.005-mm ø)		
		E3X-NA□(V)		0.9 mm ø (0.03 mm ø)		
		E3X-NAG□				
		E3X-NA□F		0.9 mm ø (0.2 mm ø)		
2-mm ø; small ø Free-cut		E3X-DA□-S		0.9-mm ø (0.005-mm ø)	E32-T22L	
		E3X-DA□-N		0.9 mm ø (0.01 mm ø)		
		E3X-MDA		0.9 mm ø (0.005 mm ø)		
		E3X-NA□(V)		0.9 mm ø (0.03 mm ø)		
		E3X-NAG□				
		E3X-NA□F		0.9 mm ø (0.2 mm ø)		
M14; with lens; ideal for explosion-proof applications Free-cut		E3X-DA□-S		10 mm ø	E32-T17L	25 mm
		E3X-DA□-N		10 mm ø (0.01 mm ø)		
		E3X-MDA		10-mm ø		
		E3X-NA□(V)		10 mm ø (0.1 mm ø)		
		E3X-NA□F		10 mm ø (1.5 mm ø)		

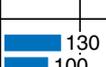
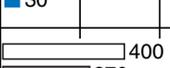
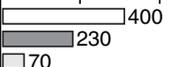
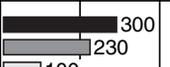
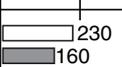
*1. Sensing distance based on white paper.

*2. Indicates values for standard mode.

*3. Longer sensing distance by using the lens unit E39-F

Long distance
Diffuse reflective fiber units

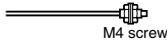
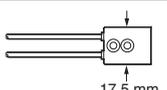
High resolution mode Standard mode
 Super long-distance mode Super high-speed mode
 Green light Red light Infrared ray

Features	Shape	Applicable Amplifier Unit	Sensing distance (mm) ^{*1}	Standard object ^{*2} (min. sensing object: Gold wire)	Model	Permissible bending radius
M6 Free-cut		E3X-DA□-S		500x500 (0.005 mm ø)	E32-D11L	25 mm
		E3X-DAG□-S E3X-DAB□-S		100x100 (0.1 mm ø)		
		E3X-DA□-N		500x500 (0.01 mm ø)		
		E3X-DAB#-N		100x100 (0.1 mm ø)		
		E3X-DAH□-N		200x200 (0.01 mm ø)		
		E3X-MDA		500x500 (0.005 mm ø)		
		E3X-NA□(V)		250x250 (0.01 mm ø)		
		E3X-NAG□		50x50 (0.1 mm ø)		
		E3X-NA□F		100x100 (0.015 mm ø)		
3 mm ø; small ø Free-cut		E3X-DA□-S		300x300 (0.005 mm ø)	E32-D12	
		E3X-DA□-N		300x300 (0.01 mm ø)		
		E3X-MDA		300x300 (0.005 mm ø)		
		E3X-NA□(V)		150x150 (0.01 mm ø)		
		E3X-NAG□		25x25 (0.1 mm ø)		
		E3X-NA□F		50x50 (0.015 mm ø)		

*1. Sensing distance based on white paper.

*2. Indicates values for standard mode.

High resolution mode
 Super long-distance mode
 Green light Red light Infrared ray
 Standard 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
M4 Free-cut		E3X-DA□-S	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">210</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">130</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">35</div> </div>	200x200 (0.005 mm ø)	E32-D21L	10 mm
		E3X-DA□-N	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">160</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">130</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">45</div> </div>	200x200 (0.01 mm ø)		
		E3X-MDA	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">130</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">85</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">35</div> </div>	200x200 (0.005 mm ø)		
		E3X-NA□(V)	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">50</div> </div>	100x100 (0.01 mm ø)		
		E3X-NAG□	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">10</div> </div>	25x25 (0.1 mm ø)		
		E3X-NA□F	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">17</div> </div>	25x25 (0.015 mm ø)		
3 mm ø; small ø Free-cut		E3X-DA□-S	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">210</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">130</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">35</div> </div>	200x200 (0.005 mm ø)	E32-D22L	10 mm
		E3X-DA□-N	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">160</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">130</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">45</div> </div>	200x200 (0.01 mm ø)		
		E3X-MDA	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">130</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">85</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">35</div> </div>	200x200 (0.005 mm ø)		
		E3X-NA□(V)	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">50</div> </div>	100x100 (0.01 mm ø)		
		E3X-NAG□	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">10</div> </div>	25x25 (0.1 mm ø)		
		E3X-NA□F	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">17</div> </div>	25x25 (0.015 mm ø)		
Square head, super-long distance Free-cut		E3X-DA□-S	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">40 to 1,000</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">40 to 700</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">40 to 240</div> </div>	300x300	E32-D16 NEW	4 mm
		E3X-MDA	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">40 to 600</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">40 to 490</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">40 to 240</div> </div>	300x300		
		E3X-DA#-N	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">40~1,000</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">40~700</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">40~400</div> </div>	300x300		
		E3X--NA#(V)	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">40~400</div> </div>	300x300		
		E3X--NA#F	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 100%;"></div> <div style="text-align: right;">55~70</div> </div>	300x300		

*1. Sensing distance based on white paper.

*2. Indicates values for standard mode.