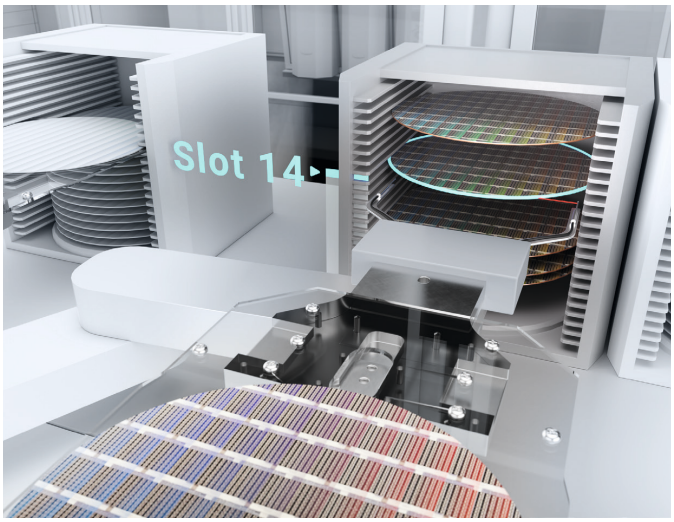
Baumer fiber optics

Overview of plastic fiber optics portfolio



Plastic fiber optics are composed of plastic fibers, typically PMMA (polymethyl methacrylate). These fibers are incredibly light, flexible, and bendable, so that they can also be used with extremely small bending radii of up to 1 mm. Highly flexible plastic fibers are especially suitable for applications with dynamic bending loads, such as in cable carrier applications. Plastic optical fibers are mainly used for transmitting visible light and are an economical and flexible solution.

Find the perfect solution for your application with the Baumer fiber optics sensor toolbox.

Plastic fiber optics with threaded sensing head

Diffuse type						
	Standard fiber layout			Coaxial fiber layout		
Dimension	Standard	High-flex cable	90° cable exit	Standard	High-flex cable	90° cable exit
M3	FUE 200DM300			FCE 200DM300	FCE 200FM300	FCE 200DH300
M4	FUE 200DM401			FCE 200DM400		FCE 200DH400
M6	FUE 200CM600	FUE 200EM600	FUE 200CH600	FCE 200CM600		

Through-beam type (standard fiber layout)						
Dimension	Standard	High-flex cable	90° cable exit	Integrated lens	105 °C	150 °C
M3	FSE 200CM300 FSE 200D1Y50	FSE 200EM300	FSE 200EH300	FWE 200CM300		
M4	FSE 200CM400 FSE 200C1Y00	FSE 200EM400 FSE 200E1Y00	FSE 200EH400	FWE 200CM400	FSA 200CM400 FSA 200C1Y00	FSB 200C1Y00

Rectangular plastic fiber optics

Through-beam type (standard fiber layout)		
Dimension	Front view	Side view
2 mm (flat)		FSE 200FR001
3 mm (flat)	FSE 100FR002	FSE 100FR000

The **first three numbers** of the type code indicate the length of the fiber optics, e.g. FUE **200**DM300 indicates a length of 200 cm. All types are compatible with fiber optic sensors FVDK 10 and OF10.

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Plastic fiber optics with cylindrical smooth sensing head

Diffuse type						
	Standard fiber layout				Coaxial fiber layout	
Dimension	Standard	Thin sleeve	Side view	Chemical resistant	Standard	Thin sleeve
Ø 1.5 mm					FCE 200DS150	
Ø 2.0 mm	FUE 200DS200					
Ø 3.0 mm	FUE 200DS300 FUE 200D2Y00	FUE 200C2Y00 FUE 050C2Y10	FUE 200DV300 FUE 200C4Y00		FCE 200DS300	FCE 200DS301
Ø 4.0 mm	FUE 200C2004					
Ø 6.0 mm	FUE 200C2003			FUC 200C2Y00		

Through-beam type (standard fiber layout)					
Dimension	Standard	Integrated lens	Thin sleeve	Side view	Chemical resistant
Ø 1.5 mm	FSE 200DS150 FSE 200D2Y00				
Ø 2.0 mm		FWE 200DS200			
Ø 2.5 mm				FSE 100DV250 FSE 200F4Y00	
Ø 3.0 mm	FSE 200CS300 FSE 200C2Y00 FSE 200C2004 FSE 200E2Y00		FSE 200ES301 FSE 200D2Y50	FSE 200CV300	
Ø 4.0 mm	FSE 200C2002			FSE 200C4001 FPE 200C4Y00	
Ø 4.7 mm					FSC 200C4Y00