



Optical Frontends

Optical frontends for reflected light or transmitted light fiber optics:

Part number:	Suitable for fiber optics type: (R, T = reflected light, D= transmitted light)	Characteristics:
KL-M34-A1.1	R-S-A1.1-(1.5)-...-67°	Working distance typ. 100 mm ... 250 mm
KL-M34-A2.0	R-S-A2.0-(2.5)-...-67°	Working distance typ. 100 mm ... 250 mm
KL-M34-A3.0	R-S-A3.0-(3.0)-...-67°	Working distance typ. 100 mm ... 250 mm
KL-M34-M5.0	T-S-M5.0-(5.0)-...-67° <i>Special version*</i>	Working distance typ. 100 mm ... 250 mm
KL-M34-M6.0	T-S-M6.0-(6.0)-...-67° <i>Special version*</i>	Working distance typ. 100 mm ... 250 mm
KL-M34-M8.0	T-S-M8.0-(8.0)-...-67° <i>Special version*</i>	Working distance typ. 100 mm ... 250 mm
KL-M34-R1.1	R-S-R1.1-(3x0.5)-...-67°	Working distance typ. 100 mm ... 250 mm
KL-M34-R2.1	R-S-R2.1-(6x1)-...-67°	Working distance typ. 100 mm ... 250 mm
KL-M34-XL-A1.1	R-S-A1.1-(1.5)-...-67°	Working distance typ. 50 mm ... 400 mm
KL-M34-XL-A2.0	R-S-A2.0-(2.5)-...-67°	Working distance typ. 50 mm ... 400 mm
KL-M34-XL-A3.0	R-S-A3.0-(3.0)-...-67°	Working distance typ. 50 mm ... 400 mm
KL-M34-XL-M5.0	T-S-M5.0-(5.0)-...-67° <i>Special version*</i>	Working distance typ. 50 mm ... 400 mm
KL-M34-XL-M6.0	T-S-M6.0-(6.0)-...-67° <i>Special version*</i>	Working distance typ. 50 mm ... 400 mm
KL-M34-XL-M8.0	T-S-M8.0-(8.0)-...-67° <i>Special version*</i>	Working distance typ. 50 mm ... 400 mm
KL-M34-XL-(M25x1.5)-M8.0	T-S-M8.0-(8.0)-...-67° <i>Special version*</i>	as above but with cable screw fitting M25x1.5
KL-M34-XL-R1.1	R-S-R1.1-(3x0.5)-...-67°	Working distance typ. 50 mm ... 400 mm
KL-M34-XL-R2.1	R-S-R2.1-(6x1)-...-67°	Working distance typ. 50 mm ... 400 mm
KL-M34/62-A1.1	R-S-A1.1-(1.5)-...-67°	Working distance typ. 80 mm ... 200 mm
KL-M34/62-A2.0	R-S-A2.0-(2.5)-...-67°	Working distance typ. 80 mm ... 200 mm
KL-M34/62-A3.0	R-S-A3.0-(3.0)-...-67°	Working distance typ. 80 mm ... 200 mm
KL-M34/62-R1.1	R-S-R1.1-(3x0.5)-...-67°	Working distance typ. 80 mm ... 200 mm
KL-M34/62-R2.1	R-S-R2.1-(6x1)-...-67°	Working distance typ. 80 mm ... 200 mm
KL-D-0°/2.5°-300-A2.0	D-S-A2.0-(2.5)-...-67°	Working distance typ. 100 mm ... 500 mm
KL-D-0°/40°-9-A2.0	D-S-A2.0-(2.5)-...-67°	(to be supplemented)
KL-D-0°/42°-9-A2.0	D-S-A2.0-(2.5)-...-67°	(to be supplemented)
KL-D-0°/45°-30-A2.0	D-S-A2.0-(2.5)-...-67°	(to be supplemented)
KL-D-0°/45°-30-A3.0	D-S-A3.0-(3.0)-...-67°	(to be supplemented)
KL-D-5°-85-POL-A2.0	D-S-A2.0-(2.5)-...-67°	(to be supplemented)
KL-D-5°-85-POL-A3.0	D-S-A3.0-(3.0)-...-67°	(to be supplemented)
KL-D-6°-200-A2.0	D-S-A2.0-(2.5)-...-67°	Working distance typ. 100 mm ... 230 mm
KL-D-14°-84-A2.0	D-S-A2.0-(2.5)-...-67°	Working distance typ. 60 mm ... 120 mm
KL-D-14°-84-A2.0-T400	D-S-A2.0-(2.5)-1200-67°-T400	Working distance typ. 60 mm ... 120 mm <i>thermally stable up to 400°C</i>
KL-D-17°-49-A2.0	D-S-A2.0-(2.5)-...-67°	Working distance typ. 30 mm ... 80 mm
KL-D-20°-31-A2.0	D-S-A2.0-(2.5)-...-67°	Working distance typ. 10 mm ... 50 mm
KL-D-28°-26-A2.0	D-S-A2.0-(2.5)-...-67°	Working distance typ. 20 mm ... 50 mm
KL-D-28°-26-KG2-A2.0	D-S-A2.0-(2.5)-...-67°	Working distance typ. 20 mm ... 50 mm
KL-D-30°-23-A2.0	D-S-A2.0-(2.5)-...-67°	Working distance typ. 20 mm ... 30 mm
KL-D-30°-23-KG2-A2.0	D-S-A2.0-(2.5)-...-67°	Working distance typ. 20 mm ... 30 mm
KL-D-40°-13-A2.0	D-S-A2.0-(2.5)-...-67°	Working distance typ. 15 mm ... 25 mm
KL-D-40°-23-5/DIF-A2.0	D-S-A2.0-(2.5)-...-67°	(to be supplemented)
KL-D-40°-23-5/DIF-A3.0	D-S-A3.0-(3.0)-...-67°	(to be supplemented)
KL-D-45°-14-A2.0	D-S-A2.0-(2.5)-...-67°	(to be supplemented)
KL-D-M12-0°/30°-9-A2.0	D-S-A2.0-(2.5)-...-67°	(to be supplemented)
KL-D-M12-0°/30°-9-A3.0	D-S-A3.0-(3.0)-...-67°	(to be supplemented)
KL-D-M12-XL-0°/30°-30-A2.0	D-S-A2.0-30°/30-A2.0 <i>Special version*</i>	Working distance typ. 10 mm ... 100 mm

*Special version:

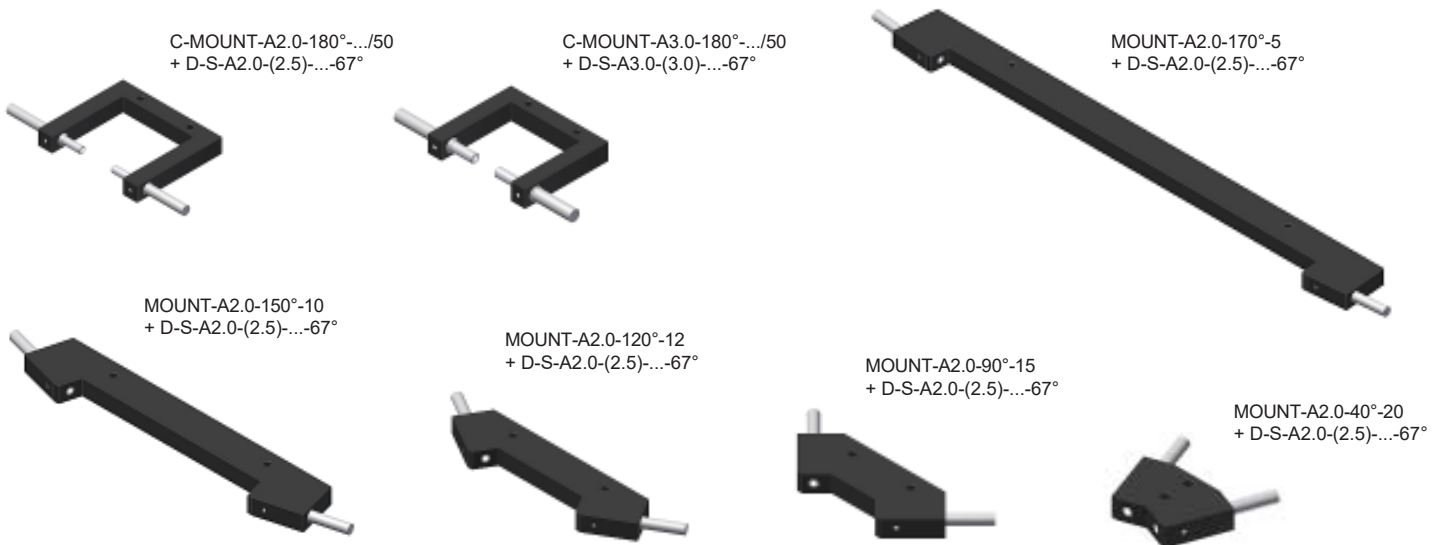
Version is different to the standard version (e.g. no standard fiber adapter) and therefore is suitable only for certain sensors or applications



Fiber Optics Fixtures

Mounting brackets (fixtures) for transmitted light fiber optics with sensor head type „A2.0“, „A3.0“, or „R2.1“:

Part number:	Suitable for fiber optics type: (D= transmitted light)	Characteristics:
C-MOUNT-A2.0-180°-22/50	D-S-A2.0-(2.5)-...-67°	Transmitter/receiver distance 22 mm, fork width/depth: 50/50 mm
C-MOUNT-A2.0-180°-60/50	D-S-A2.0-(2.5)-...-67°	Transmitter/receiver distance 22 mm, fork width/depth: 60/50 mm
C-MOUNT-A2.0-180°-100/50	D-S-A2.0-(2.5)-...-67°	Transmitter/receiver distance 100 mm, fork width/depth: 100/50 mm
C-MOUNT-A3.0-180°-16/50	D-S-A3.0-(3.0)-...-67°	Transmitter/receiver distance 16 mm, fork width/depth: 50/50 mm
C-MOUNT-A3.0-180°-60/50	D-S-A3.0-(3.0)-...-67°	Transmitter/receiver distance 60 mm, fork width/depth: 94/50 mm
C-MOUNT-A3.0-180°-100/50	D-S-A3.0-(3.0)-...-67°	Transmitter/receiver distance 100 mm, fork width/depth: 100/50 mm
MOUNT-A2.0-170°-5	D-S-A2.0-(2.5)-...-67°	Angle of incidence 85° to the vertical in a distance of 5 mm to the object, gloss control of extremely rough surfaces
MOUNT-A3.0-170°-5	D-S-A3.0-(3.0)-...-67°	Angle of incidence 85° to the vertical in a distance of 5 mm to the object, gloss control of extremely rough surfaces
MOUNT-A2.0-150°-10	D-S-A2.0-(2.5)-...-67°	Angle of incidence 75° to the vertical in a distance of 10 mm to the object, gloss control of rough surfaces
MOUNT-A3.0-150°-10	D-S-A3.0-(3.0)-...-67°	Angle of incidence 75° to the vertical in a distance of 10 mm to the object, gloss control of rough surfaces
MOUNT-A2.0-120°-12	D-S-A2.0-(2.5)-...-67°	Angle of incidence 60° to the vertical in a distance of 12 mm to the object, gloss control of matt to light glossy surfaces
MOUNT-A3.0-120°-12	D-S-A3.0-(3.0)-...-67°	Angle of incidence 60° to the vertical in a distance of 12 mm to the object, gloss control of matt to light glossy surfaces
MOUNT-R1.1-120°-12	D-S-R1.1-(3x0.5)-...-67°	Angle of incidence 60° to the vertical in a distance of 12 mm to the object, gloss control of matt to light glossy surfaces
MOUNT-R2.1-120°-12	D-S-R2.1-(6x1)-...-67°	Angle of incidence 60° to the vertical in a distance of 12 mm to the object, gloss control of matt to light glossy surfaces
MOUNT-A2.0-90°-15	D-S-A2.0-(2.5)-...-67°	Angle of incidence 45° to the vertical in a distance of 15 mm to the object, gloss control of matt to glossy surfaces
MOUNT-A3.0-90°-15	D-S-A3.0-(3.0)-...-67°	Angle of incidence 45° to the vertical in a distance of 15 mm to the object, gloss control of matt to glossy surfaces
MOUNT-A2.0-40°-20	D-S-A2.0-(2.5)-...-67°	Angle of incidence 20° to the vertical in a distance of 20 mm to the object, gloss control of very glossy surfaces
MOUNT-A3.0-40°-20	D-S-A3.0-(3.0)-...-67°	Angle of incidence 20° to the vertical in a distance of 20 mm to the object, gloss control of very glossy surfaces





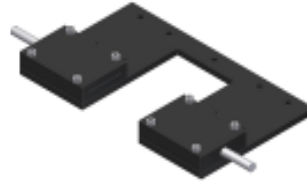
Fiber Optics Fixtures

Mounting brackets (fixtures) for transmitted light fiber optics with sensor head type „Q...“ (cross-section converter):

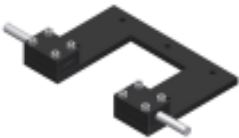
Part number:	Suitable for fiber optics type:	Characteristics:
C-MOUNT-Q1-180°-50/50	D-S-Q1-(5x0.5)-...-67°	Width of measuring range: 5 mm, transmitter/receiver distance: 50 mm, distance beginning of measurement range (inner side) to inner edge of housing: 50 mm
C-MOUNT-Q2-180°-50/50	D-S-Q2-(10x0.3)-...-67°	Width of measuring range: 10 mm, transmitter/receiver distance: 50 mm, distance beginning of measurement range (inner side) to inner edge of housing: 50 mm
C-MOUNT-Q3-180°-50/50	D-S-Q3-(18x0.3)-...-67°	Width of measuring range: 18 mm, transmitter/receiver distance: 50 mm, distance beginning of measurement range (inner side) to inner edge of housing: 50 mm
C-MOUNT-Q4-180°-50/50	D-S-Q4-(28x0.2)-...-67°	Width of measuring range: 28 mm, transmitter/receiver distance: 50 mm, distance beginning of measurement range (inner side) to inner edge of housing: 50 mm
C-MOUNT-Q5-180°-50/50	D-S-Q5-(38x0.15)-...-67°	Width of measuring range: 38 mm, transmitter/receiver distance: 50 mm, distance beginning of measurement range (inner side) to inner edge of housing: 50 mm
C-MOUNT-Q6-180°-50/50	D-S-Q6-(48x0.15)-...-67°	Width of measuring range: 48 mm, transmitter/receiver distance: 50 mm, distance beginning of measurement range (inner side) to inner edge of housing: 50 mm



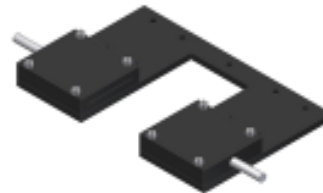
C-MOUNT-Q1-180°-50/50
+ D-S-Q1-(5x0.5)-...-67°



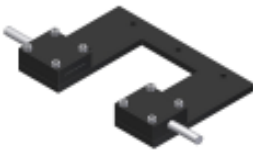
C-MOUNT-Q4-180°-50/50
+ D-S-Q4-(28x0.2)-...-67°



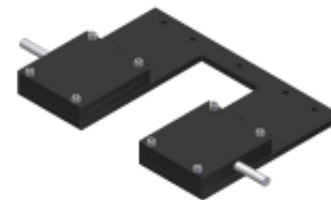
C-MOUNT-Q2-180°-50/50
+ D-S-Q2-(10x0.3)-...-67°



C-MOUNT-Q5-180°-50/50
+ D-S-Q5-(38x0.15)-...-67°



C-MOUNT-Q3-180°-50/50
+ D-S-Q3-(18x0.3)-...-67°



C-MOUNT-Q6-180°-50/50
+ D-S-Q6-(48x0.15)-...-67°