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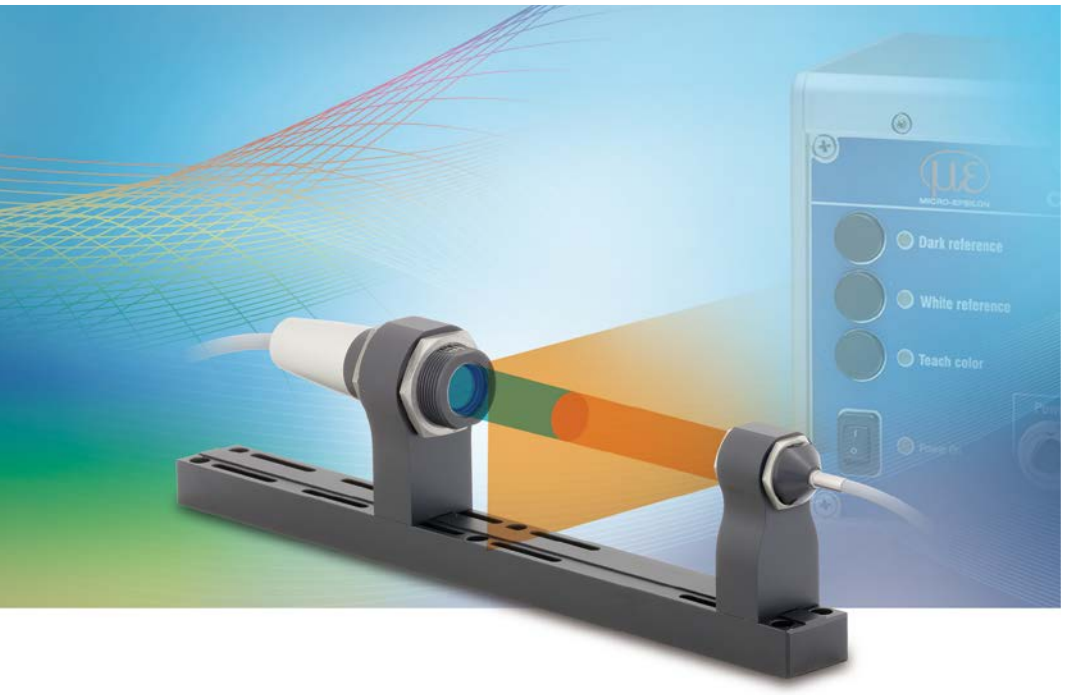
Products, Solution, Services

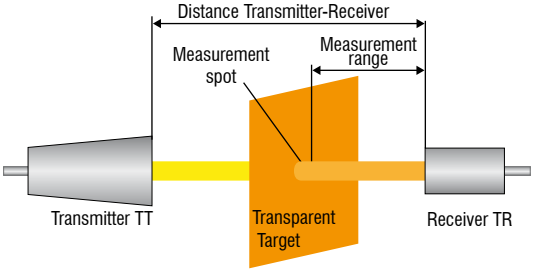
colorCONTROL ACS3



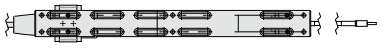
- *Measurement of self-luminous and transparent objects*
- *Measurement distance: max 300mm*
- *Measurement geometry: transmission*
- *Measurement spot: ø5/ø9mm (at a measurement distance up to 200mm)*

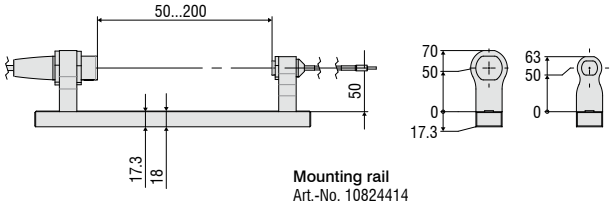
The transmission sensor ACS3 is used to measure self-luminous and transparent objects like foil, glass and Plexiglas. For the color measurement of selfluminous objects, only a receiver unit is required. Measuring transparent objects requires transmitter (TT) and receiver unit (TR) which can be installed with a mounting set.

Measurement geometry:
Transmission

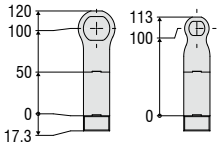


FCS-ACS3-200 mounting rail

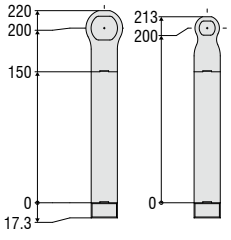




Mounting rail
Art.-No. 10824414



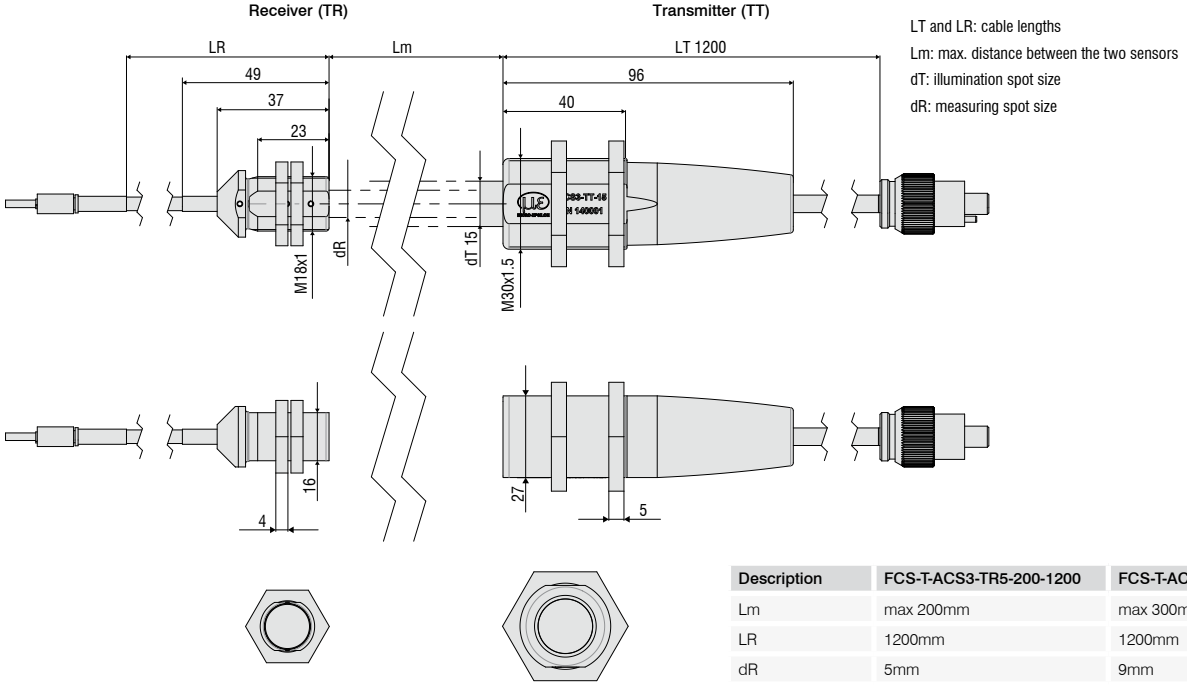
FCS-ACS3 mounting adapter 50mm
Art.-No. 10824423



FCS-ACS3 mounting adapter 150mm
Art.-No. 10824422

Fiber-optic sensor FCS-T-	ACS3-TR5-200-1200	ACS3-TR9-200-1200	ACS3-TT15-200-1200
Article number	10824411	10824412	10824413
Measurement geometry (illumination/receiver)	Receiver	Receiver	Transmitter
Measurement spot diameter	5mm for <100mm [1]	9 mm for <200mm [1]	15mm for 200mm [5]
Optimal measurement distance	10 ... 100mm [2] [3]	10 ... 200mm [2] [3]	10 ... 200mm
Working range	10 ... 200mm [2] [3]	10 ... 300mm [2] [3]	10 ... 300mm
Distance tolerance [4]	<0.01 ΔE/mm [6] <0.005 ΔE/mm [2]	<0.01 ΔE/mm [6] <0.005 ΔE/mm [2]	-
Tilt angular tolerance [4]	<0.05 ΔE/°	<0.05 ΔE/°	-
Ambient light tolerance at max. LED-performance	<0.05 ΔE/1000lux	<0.05 ΔE/1000lux	-
Dimensions	Ø22x40mm	Ø22x40mm	Ø30x96mm
Weight (sensor incl. optical fiber)	70g	70g	220g
Length of the optical fiber/sensor cable (optical-fiber cable)	1.2m (max. 30m)	1.2m (max. 30m)	1.2m (max. 1.8m)
Bending radius sensor cable	70mm	70mm	70mm
Protection class	IP 64	IP 64	IP 64
Operating temperature	-20°C ... +70°C	-20°C ... +70°C	-20°C ... +70°C
Storage temperature	-20°C ... +70°C	-20°C ... +70°C	-20°C ... +70°C
Shock resistance	DIN EN 60068-2-29; 15g, 6ms		
Vibration resistance	DIN EN 60068-2-6; 2g / 10Hz…500Hz		

[1] Measurement spot diverges with growing distance between receiver and target
[2] Valid in combination with ACS3-TT15-200 for the transmission measurement (transmitted light)
[3] When measuring the transmission, the “optimal measurement distance” and the “working range” refer to the distance between transmitter and receiver. The sample can be at any position within the light curtain between transmitter and receiver.
[4] Tilt angular tolerance and distance tolerance were determined in transmission with different color glass filters (thickness 2.5 mm, refraction index 1.5). When measuring the illumination (only receiver), these were determined with uniformly illuminated (Lambertian) diffuser by tilting the transmitter towards the receiver.
[5] Illumination spot diameter
[6] When using it as receiver sensor for illumination measurement



Description	FCS-T-ACS3-TR5-200-1200	FCS-T-ACS3-TR9-200-1200
Lm	max 200mm	max 300mm
LR	1200mm	1200mm
dR	5mm	9mm

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