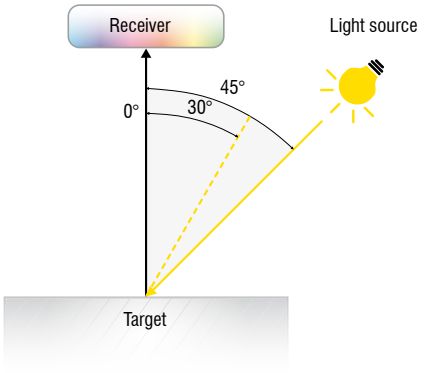
- *For common measuring tasks*
- *Measurement distance: 38 or 50 mm*
- *Measurement geometry: 45°x:0°; 30°x:0°°*
- *Measurement spot: ø9mm*

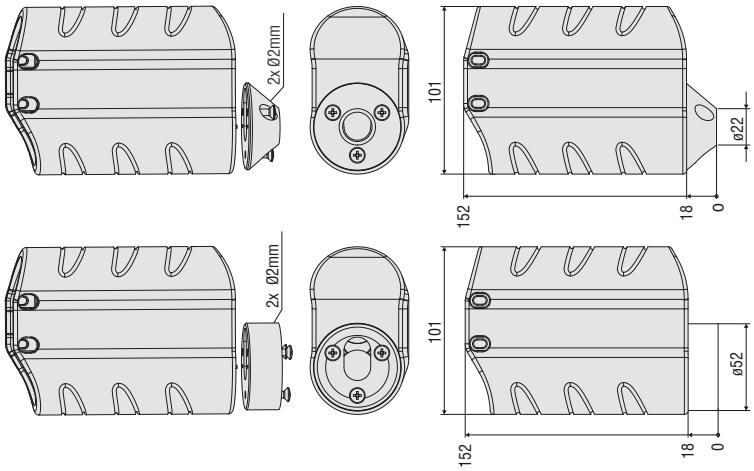
The standard sensor ACS1 is used for common measuring tasks. The transmitter and the receiver inside the sensor are arranged at an angle of 45°x:0° or 30°x:0° to each other, producing a working distance of 38mm or 50mm.

An optionally available adapter permits applying the 30°x:0° sensor even in tactile measurements.

Measurement geometry:
Angular sensor model: 45°x:0°; 30°x:0°



FCS-ACS1-30/0 adapter tactile
Article number 10824338



Fiber-optic sensor FCS-T-	ACS1-30/0-50-1200	ACS1-45/0-38-1200
Article number	10824175	10824371
Geometry (illumination : receiver)	30°x:0°	45°x:0°
Measuring spot diameter	9mm	9mm
Optimal measurement distance	50mm	38mm
Working range	±2mm of optimal working distance (ΔE<1)	±1mm of optimal working distance (ΔE<1)
Distance tolerance	0.5 ΔE/mm	1 ΔE/mm
Tilt angular tolerance	<0.3 ΔE/°	<1.33 ΔE/°
Ambient light tolerance at max. LED-performance [1)]	<0.5 ΔE/1000lux	<0.6 ΔE/1000lux
Dimensions	85x120x40mm	106x125x40mm
Weight (sensor incl. optical fiber)	420g	500g
Length of the optical fiber/sensor cable (optical-fiber cable)	1.2m (max 1.8m)	1.2m (max 1.8m)
Bending radius sensor cable	70mm	70mm
Protection class	IP64	IP64
Operating temperature	-20°C ... +50°C	-20°C ... +50°C
Storage temperature	-20°C ... +50°C	-20°C ... +50°C
Shock resistance	DIN EN 60068-2-29; 15g, 6ms	DIN EN 60068-2-29; 15g, 6ms
Vibration resistance	DIN EN 60068-2-6; 2g / 10Hz…500Hz	DIN EN 60068-2-6; 2g / 10Hz…500Hz

[1)] Measured at maximum illumination for reference tile (R = 61%) light grey with warm white external LED light source