Functions
- Noncontact online color measurement
- Color recognition from a taught reference list
- Triggering, synchronization
- Ethernet/EtherCAT, RS422, digital I/O
- Measurement frequency up to 2000 Hz

Warnings
- Connect the power supply in accordance to the safety regulations for electrical equipment. The power supply may not exceed the specified limits.
- Danger of injury, damage to or destruction of the system.
- Protect the optical fiber ends from dirt and contamination, protect the cables from damage.
- Failure of the measurement device
- Avoid shock and vibration to the controller or the sensor.
- Damage to or destruction of the system

Proper Environment
- Protection class: P40 (Controller)
- IP64 (Sensor)
- Temperature range:
  - Operating: 0 ... +45 °C (+32 ... +113 °F)
  - Storage: -20 ... 70 °C (-4 ... +158 °F)

You can find more information about the sensor in the operating instructions. They are available online at: www.micro-epsilon.com/download/manuals/man--colorCONTROL-ACS7000--en.pdf or with the QR code at right:

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Full Color Sensors 

colorCONTROL

Angle Sensor ACS1
FCS-AACS1-R45-00-DXXXX

Mount the sensor to the three mounting holes. Use three cylinder head screws M4x45.

Circular Sensor ACS2
FCS-AACS2-R45-0000-XXXX(002)

Attach the sensor either laterally to the two or from above to the four mounting holes. Use cylinder head screws M3x16.

Assembly Instructions
colorCONTROL ACS7000
Angle sensor ACS1
Circular sensor ACS2
Transmission sensor ACS3
Tactile adapter ACS1-30/0

Circuit switch
Pushbutton, LED Teach color
Pushbutton, LED White reference
Pushbutton, LED Dark reference
RS232, color, digital I/O and supply connectors
USB-Mass Storage
LED measurement
LED Status

Attach the sensor either laterally to the two or from above to the four mounting holes. Use cylinder head screws M3x16.

The receiver optics must be positioned vertically above the measurement object. The optimum distance between measurement object and sensor is near the center of the working range. Alternatively, use the web interface (Video/Spectrum program area) to set amplitude to maximum.

You can find more information about the sensor in the operating instructions. They are available online at: www.micro-epsilon.com/download/manuals/man--colorCONTROL-ACS7000--en.pdf or with the QR code at right:
Attach the sensor either laterally to the two or from above to the four mounting holes. Use cylinder head screws M3x18. The receiver optics must be positioned vertically above the measurement object. The optimum distance between measurement object and sensor is near the center of the working range. Alternatively, use the web interface (Video/Spectrum program area) to set amplitude to maximum.

The orientation of the measurement spot is parallel to the flattening at the sensor, see drawing.

The adapter enables it, to test samples for the quality control at a random check with defined distance, angle and ambient conditions.

Observe the sensor mounting instructions in the operating instructions, see Chap. 4.5.

Procedure:
1. Mount the sensor in the adapter using the supplied screws.

   Figure A

Notice

Observe the sensor mounting instructions in the operating instructions, see Chap. 4.5.

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   Figure A

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Procedure:
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   Figure A

Notice