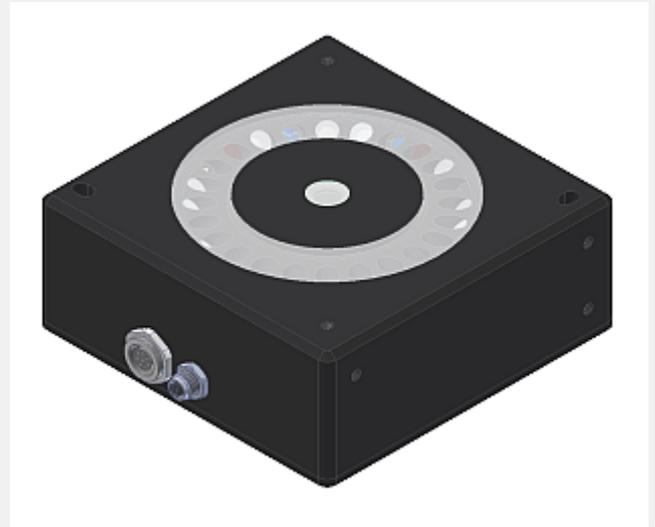


# SPECTRO Series

Available on request

## ► SPECTRO-3-28-45°/0°-MSM-ANA-VISUV

- **Color measurement** (color, contrast, and gray scale detection)
- Color measurement acc. to 45°/0° method (45° transmitter arrangement, 0° receiver arrangement)
- Object distance (measuring range) typ. 28 mm ± 2 mm
- L\*a\*b\*, L\*C\*h\*, L\*u\*v\*, L\*u'v' and xyY evaluation (CIE standard)
- Up to 3 colors can be taught
- 12x warm-white LED incl. interference filter, 4x UV LED and 8x blue-light LED (D65-similar LED light), AC-, DC-operation can be switched
- Insensitive to outside light (in AC-operation)
- Scan frequency max. 90 kHz (in DC-operation)
- Switching frequency typ. 60 kHz
- 3 analog outputs to output color values to PLC
- 2 digital outputs to output taught colors
- TEACH via PC or external input
- Various evaluation algorithms can be activated
- "BEST HIT" mode ("human color assessment")
- Averaging can be activated (from 1 up to over 32000 values)
- Parameterizable via Windows® software, scope function
- RS232 interface (USB or Ethernet converter available)
- Temperature compensated
- 3-color filter detector (true color detector: "human color perception")



### Design

#### Product name:

#### SPECTRO-3-28-45°/0°-MSM-ANA-VISUV

(incl. Windows® software  
SPECTRO3-MSM-ANA-Scope)

Receiver optics with 3-color filter detector (True Color), scratch-resistant optics cover made of glass

#### Accessories: (p. 8-9)

SPECTRO-3-28-45°/0°-OFL  
SPECTRO-3-28-45°/0°-OFL-D30 (Spacer)

Mounting possibility (2x)

Sturdy aluminum housing, anodized in black

8-pole fem. connector Binder Series 712 (connection to PLC)

Connecting cable: cab-las8/SPS

4-pole fem. connector Binder Series 707 (RS232 Interface)

Connecting cable: cab-las4/PC or cab-4/USB or cab-4/ETH

Mounting possibilities (threaded M4, 2x) for spacer SPECTRO-...-OFL

Mounting possibilities (threaded M4, 6x)

Transmitter optics with 12 warm-white LED incl. interference filter, 4 UV LED and 8 D65-similar blue light LED, scratch-resistant optics cover made of glass

