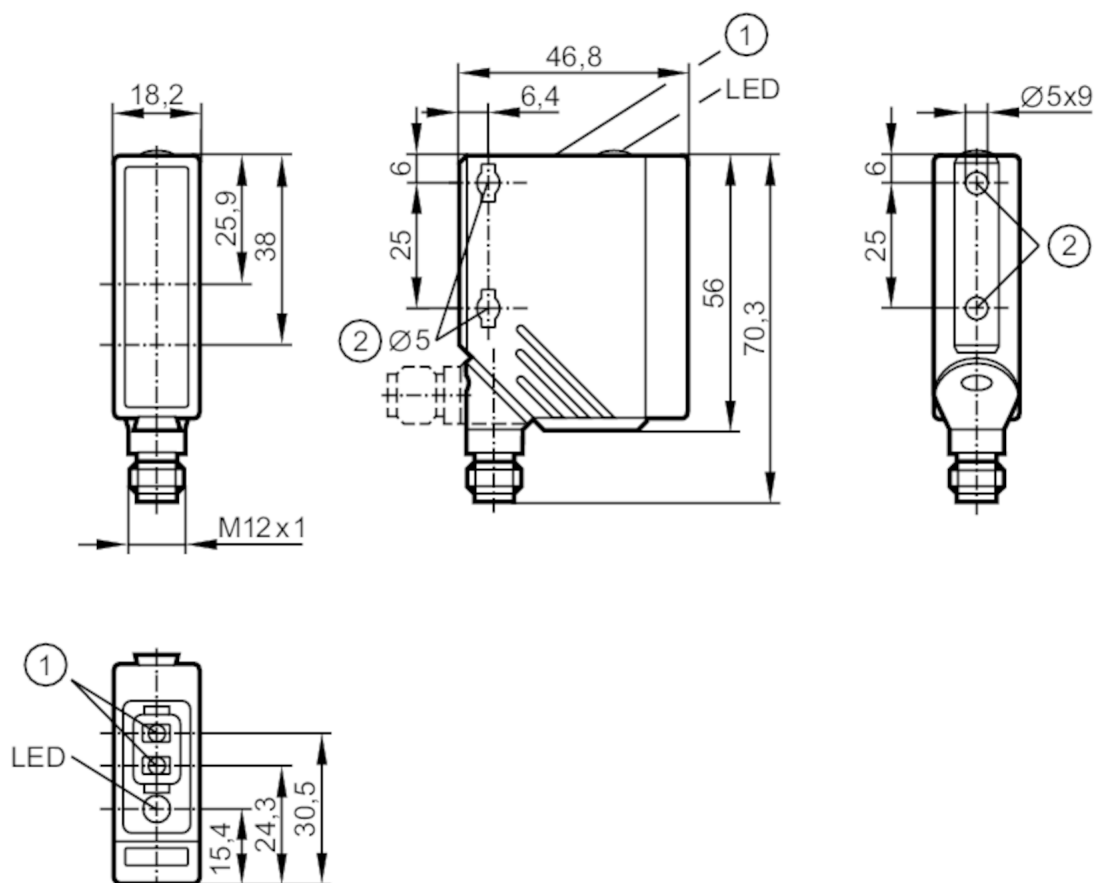


# O5C500

## Colour sensor

O5C-MAKG/US100



- 1 programming buttons  
 2 When a M5 mounting screw is used, the max. tightening torque is 2 Nm.  
 receiver in upper lens  
 transmitter in lower lens



### Product characteristics

|                 |                                    |
|-----------------|------------------------------------|
| Type of light   | red light; green light; blue light |
| Housing         | rectangular                        |
| Dimensions [mm] | 56 x 18.2 x 46.8                   |

### Electrical data

|                             |                                    |
|-----------------------------|------------------------------------|
| Operating voltage [V]       | 10...36 DC                         |
| Current consumption [mA]    | 50; ((24 V))                       |
| Protection class            | II                                 |
| Reverse polarity protection | yes                                |
| Type of light               | red light; green light; blue light |
| Wave length [nm]            | 625; 525; 465                      |

# O5C500



## Colour sensor

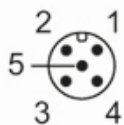
O5C-MAKG/US100

| Outputs                                              |                                                                   |                |
|------------------------------------------------------|-------------------------------------------------------------------|----------------|
| Electrical design                                    | PNP/NPN; (automatic load detection PNP/NPN)                       |                |
| Output function                                      | light-on/dark-on mode; (programmable)                             |                |
| Max. voltage drop switching output DC [V]            | 2.5                                                               |                |
| Permanent current rating of switching output DC [mA] | 200                                                               |                |
| Switching frequency DC [Hz]                          | 2000                                                              |                |
| Notes on switching frequency                         | for tolerance step 5                                              |                |
| Short-circuit protection                             | yes                                                               |                |
| Type of short-circuit protection                     | pulsed                                                            |                |
| Overload protection                                  | yes                                                               |                |
| Detection zone                                       |                                                                   |                |
| Range [mm]                                           | 15...19                                                           |                |
| Max. light spot width [mm]                           | 2.5                                                               |                |
| Max. light spot height [mm]                          | 6                                                                 |                |
| Response times                                       |                                                                   |                |
| Response time [s]                                    | < 0.3                                                             |                |
| Operating conditions                                 |                                                                   |                |
| Ambient temperature [°C]                             | -25...60                                                          |                |
| Protection                                           | IP 67                                                             |                |
| Tests / approvals                                    |                                                                   |                |
| EMC                                                  | EN 60947-5-2                                                      |                |
| MTTF [years]                                         | 491                                                               |                |
| Mechanical data                                      |                                                                   |                |
| Weight [g]                                           | 82.5                                                              |                |
| Housing                                              | rectangular                                                       |                |
| Dimensions [mm]                                      | 56 x 18.2 x 46.8                                                  |                |
| Materials                                            | housing: PA; bezel: stainless steel; operator interface: TPU / PC |                |
| Lens material                                        | front lens:PMMA                                                   |                |
| Lens alignment                                       | side lens                                                         |                |
| Displays / operating elements                        |                                                                   |                |
| Display                                              | switching status                                                  | 1x LED, yellow |
|                                                      | tolerance step                                                    | 1x LED, green  |
| Teach function                                       | yes                                                               |                |
| Electronic lock                                      | yes                                                               |                |
| Remarks                                              |                                                                   |                |
| Remarks                                              | operating voltage "supply class 2" according to cULus             |                |
| Pack quantity                                        | 1 pcs.                                                            |                |
| Electrical connection                                |                                                                   |                |
| Connector: 1 x M12                                   |                                                                   |                |

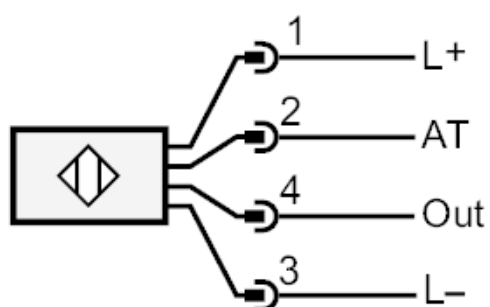
# O5C500

## Colour sensor

O5C-MAKG/US100



### Connection



1 activation trigger AT