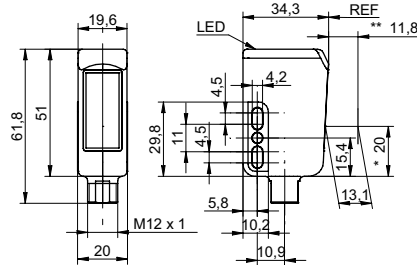


# Diffuse contrast sensors

## FKDR 14G6901/S14

### dimension drawing



\* emitter axis

### general data

|                        |                         |
|------------------------|-------------------------|
| type                   | diffuse contrast sensor |
| special type           | Washdown design         |
| light source           | white LED               |
| sensing distance Tw    | 12,5 mm $\pm$ 2 mm      |
| light indicator        | LED green               |
| output indicator       | LED yellow              |
| sensitivity adjustment | Teach-in                |
| distance to focus      | 12,5 mm                 |
| beam height            | 3 mm                    |
| beam width             | 1 mm                    |
| Approvals/certificates | Ecolab                  |

### electrical data

|                                    |                      |
|------------------------------------|----------------------|
| response time / release time       | < 0,05 ms            |
| voltage supply range +Vs           | 18 ... 30 VDC        |
| current consumption max. (no load) | 50 mA                |
| current consumption typ.           | 40 mA                |
| voltage drop Vd                    | < 3 VDC              |
| output function                    | light / dark operate |
| output circuit                     | push-pull            |
| output current                     | < 100 mA             |
| short circuit protection           | yes                  |
| reverse polarity protection        | yes                  |

### mechanical data

|                  |                                   |
|------------------|-----------------------------------|
| width / diameter | 19,6 mm                           |
| height / length  | 51 mm                             |
| depth            | 34,3 mm                           |
| type             | rectangular                       |
| housing material | stainless steel 1.4404 (V4A); LSR |
| front (optics)   | PMMA                              |
| connection types | connector M12                     |

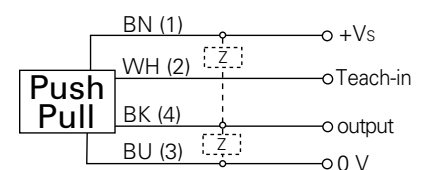
### ambient conditions

|                       |                      |
|-----------------------|----------------------|
| operating temperature | -25 ... +60 °C       |
| protection class      | IP 68/69K & proTect+ |

### photo



### connection diagram



proTect<sup>+</sup>

- Sensor FDA compliant and Ecolab approved
- sensitivity adjustable: via Teach-in wire input
- LSR = Liquid Silicon Rubber