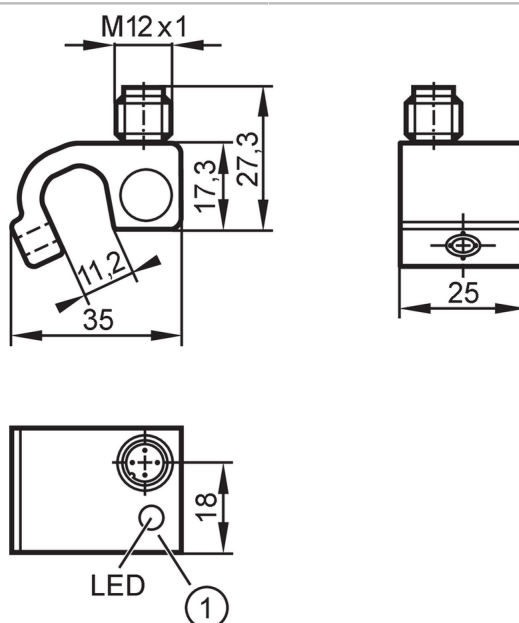


# MK504A



## Cylinder sensor for tie-rod cylinder

MKZ3028-BPKG/G/US/3D/3G



1 Sensing face in the LED zone



### Product characteristics

|                   |                |
|-------------------|----------------|
| Electrical design | PNP            |
| Output function   | normally open  |
| Dimensions [mm]   | 35 x 25 x 17.3 |

### Application

|                 |                      |
|-----------------|----------------------|
| Special feature | gold-plated contacts |
|-----------------|----------------------|

### Electrical data

|                               |            |
|-------------------------------|------------|
| Operating voltage [V]         | 10...30 DC |
| Current consumption [mA]      | < 10       |
| Protection class              | III        |
| Reverse polarity protection   | yes        |
| Max. power-on delay time [ms] | 30         |

### Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP           |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 2.5           |
| Permanent current rating of switching output DC [mA] | 100           |
| Switching frequency DC [Hz]                          | 10000         |
| Short-circuit protection                             | yes           |
| Overload protection                                  | yes           |

### Monitoring range

|                           |      |
|---------------------------|------|
| Magnetic sensitivity [mT] | 2.8  |
| Travel speed [m/s]        | > 10 |

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| Accuracy / deviations                                   |                              |                                       |
|---------------------------------------------------------|------------------------------|---------------------------------------|
| Hysteresis                                              | [mm]                         | < 1.5                                 |
| Repeatability                                           | [mm]                         | < 0.2                                 |
| Operating conditions                                    |                              |                                       |
| Ambient temperature                                     | [°C]                         | -20...60                              |
| Protection                                              |                              | IP 67                                 |
| Tests / approvals                                       |                              |                                       |
| ATEX marking                                            | II 3D Ex tc IIIC T125°C Dc X |                                       |
|                                                         | II 3G Ex ec IIC T4 Gc X      |                                       |
| EMC                                                     | EN 61000-4-2 ESD             | - CD / 8 kV AD                        |
|                                                         | EN 61000-4-3 HF radiated     | 3 V/m                                 |
|                                                         | EN 61000-4-4 Burst           | 2 kV                                  |
|                                                         | EN 61000-4-6 HF conducted    | 10 V                                  |
|                                                         | EN 55011                     | class B                               |
| MTTF                                                    | [years]                      | 3768                                  |
| Mechanical data                                         |                              |                                       |
| Weight                                                  | [g]                          | 70                                    |
| Sensing face                                            |                              | front                                 |
| Cylinder type                                           |                              | tie rod cylinders                     |
| Dimensions                                              | [mm]                         | 35 x 25 x 17.3                        |
| Material                                                |                              | aluminum; PBT                         |
| Clamping range                                          | [mm]                         | 5...11                                |
| Displays / operating elements                           |                              |                                       |
| Display                                                 | Switching status             | 1 x LED, yellow                       |
| Accessories                                             |                              |                                       |
| Items supplied                                          |                              | set screw: 1                          |
| Remarks                                                 |                              |                                       |
| Remarks                                                 |                              | voltage supply to EN50178, SELV, PELV |
| Pack quantity                                           |                              | 1 pcs.                                |
| Electrical connection - plug                            |                              |                                       |
| Connector: 1 x M12; coding: A; Contacts: 4, gold-plated |                              |                                       |
|                                                         |                              |                                       |

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### Connection

