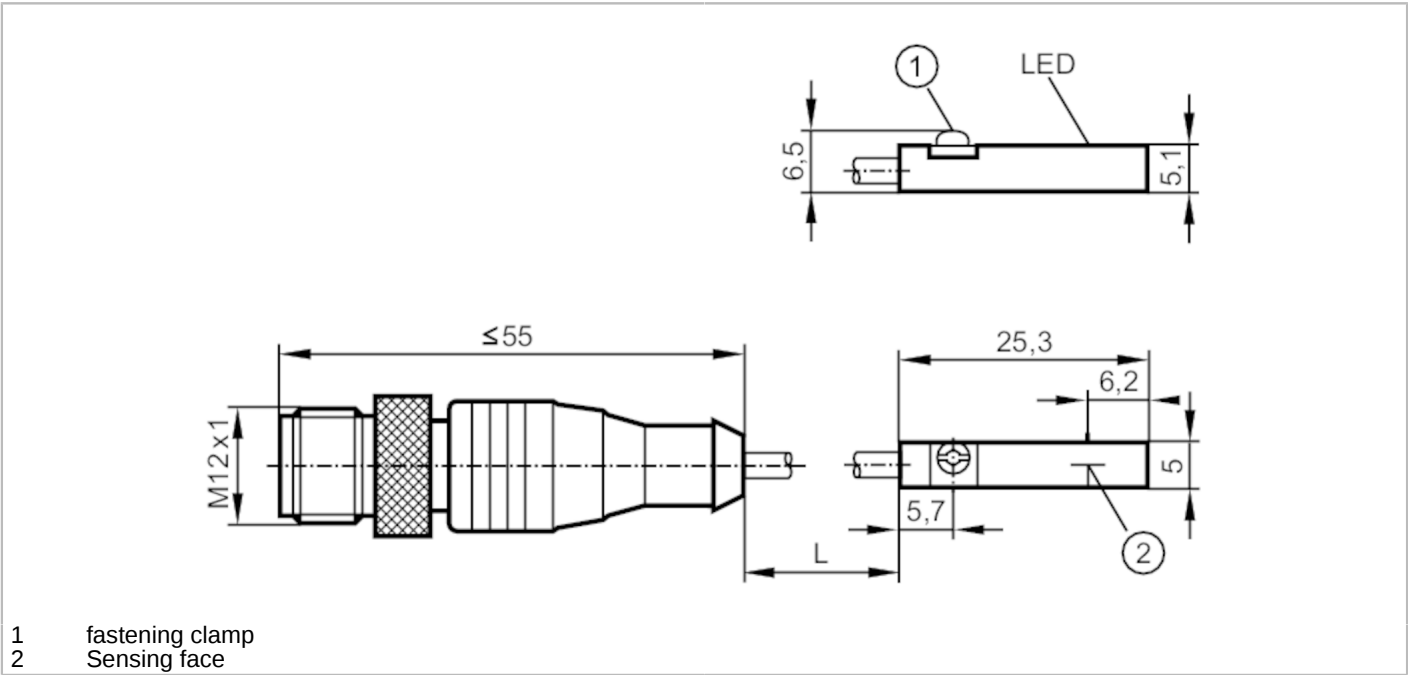


# MK5109



## T-slot cylinder sensor

MKT2028BARKG/G/0,3M/ZH/US



| Product characteristics                         |       |                                         |
|-------------------------------------------------|-------|-----------------------------------------|
| Electrical design                               |       | PNP/NPN                                 |
| Output function                                 |       | normally open                           |
| Dimensions                                      | [mm]  | 25 x 5 x 6.5                            |
| Electrical data                                 |       |                                         |
| Operating voltage                               | [V]   | 10...30 DC; ("supply class 2" to cULus) |
| Protection class                                |       | III                                     |
| Reverse polarity protection                     |       | yes                                     |
| Max. power-on delay time                        | [ms]  | 30                                      |
| Outputs                                         |       |                                         |
| Electrical design                               |       | PNP/NPN                                 |
| Output function                                 |       | normally open                           |
| Max. voltage drop switching output DC           | [V]   | 4.5                                     |
| Minimum load current                            | [mA]  | 5                                       |
| Max. leakage current                            | [mA]  | 0.8                                     |
| Permanent current rating of switching output DC | [mA]  | 100                                     |
| Switching frequency DC                          | [Hz]  | 4000                                    |
| Short-circuit protection                        |       | yes                                     |
| Overload protection                             |       | yes                                     |
| Detection zone                                  |       |                                         |
| Response 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]                      | -25...85                                                                    |
| Protection                                                                          |                           | IP 65; IP 67                                                                |
| Tests / approvals                                                                   |                           |                                                                             |
| EMC                                                                                 | EN 61000-4-2 ESD          | - CD / 8 kV AD                                                              |
|                                                                                     | EN 61000-4-3 HF radiated  | 10 V/m                                                                      |
|                                                                                     | EN 61000-4-4 Burst        | 2 kV                                                                        |
|                                                                                     | EN 61000-4-6 HF conducted | 10 V                                                                        |
|                                                                                     | EN 55011                  | class B                                                                     |
| MTTF                                                                                | [years]                   | 3145                                                                        |
| UL approval                                                                         | UL Approval no.           | C003                                                                        |
| Mechanical data                                                                     |                           |                                                                             |
| Weight                                                                              | [g]                       | 21.2                                                                        |
| Mounting                                                                            |                           | flush mountable                                                             |
| Type of mounting                                                                    |                           | fastening clamp with combined slot / hexagon socket, width across flats 1.5 |
| Cylinder type                                                                       |                           | T-slot cylinders                                                            |
| Dimensions                                                                          | [mm]                      | 25 x 5 x 6.5                                                                |
| Materials                                                                           |                           | housing: PA; fastening clamp: stainless steel                               |
| Displays / operating elements                                                       |                           |                                                                             |
| Display                                                                             | switching status          | 1 x LED, yellow                                                             |
| Accessories                                                                         |                           |                                                                             |
| Items supplied                                                                      |                           | rubber placeholder: 1                                                       |
|                                                                                     |                           | Cable clip: 1                                                               |
| Remarks                                                                             |                           |                                                                             |
| Pack quantity                                                                       |                           | 1 pcs.                                                                      |
| Electrical connection - plug                                                        |                           |                                                                             |
| Cable: 0.3 m, PUR                                                                   |                           |                                                                             |
| Connector: 1 x M12; coding: A; Locking: knurled nut, rotatable                      |                           |                                                                             |
|  |                           |                                                                             |

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### Connection

