

- 1: Fastening clamp
2: sensing face



Product characteristics

cylinder sensor with AMR cell

Plastic housing for T-slot cylinders

Cable with connector

[f] flush mountable

Magnetic sensitivity 2 mT

Travel speed > 10 m/s

Electrical data

Electrical design

DC NPN

| | |
|-----------------------------|---|
| Operating voltage [V] | 10...30 DC; cULus - Class 2 source required |
| Current consumption [mA] | < 10 |
| Protection class | III |
| Reverse polarity protection | yes |

Outputs

normally open

| | |
|--------------------------|---------------|
| Output function | normally open |
| Voltage drop [V] | < 2.5 |
| Current rating [mA] | 100 |
| Short-circuit protection | yes |
| Overload protection | yes |
| Switching frequency [Hz] | 6000 |

Monitoring range

| | |
|---------------------------|------|
| Magnetic sensitivity [mT] | 2 |
| Travel speed [m/s] | > 10 |

Accuracy / deviations

| | |
|--------------------|-------|
| Hysteresis [mm] | < 1 |
| Repeatability [mm] | < 0.2 |

Reaction times

| | |
|--------------------------|------|
| Power-on delay time [ms] | < 30 |
|--------------------------|------|

Environment

| | |
|--------------------------|----------|
| Ambient temperature [°C] | -25...85 |
|--------------------------|----------|

Protection

IP 65 / IP 67

Tests / approvals

EMC

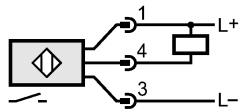
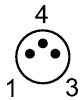
| | |
|----------------------------|----------------|
| EN 61000-4-2 ESD: | - CD / 8 kV AD |
| EN 61000-4-3 HF radiated: | 10 V/m |
| EN 61000-4-4 Burst: | 2 kV |
| EN 61000-4-6 HF conducted: | 10 V |
| EN 55011: | class B |

| | |
|--------------|------|
| MTTF [Years] | 2076 |
|--------------|------|

MK5137 - cylinder sensor with AMR cell - eclass: 27270104 / 27-27-01-04

| | |
|-------------------------------|---|
| UL approval number | C003 |
| Mechanical data | |
| Mounting | flush mountable |
| Housing materials | housing: PA (polyamide); Fastening clamp: stainless steel |
| Weight [kg] | 0.012 |
| Displays / operating elements | |
| Output status indication LED | yellow |
| Electrical connection | |
| Connection | PUR cable / 0.3 m; with M8 connector (snap-fit) |

Wiring



| | |
|------------------------|--|
| Accessories | |
| Accessories (included) | rubber placeholder; cable clip |
| Remarks | |
| Remarks | Clamping screw with combined slot/hexagon socket head AF 1.5 |
| Pack quantity [piece] | 1 |