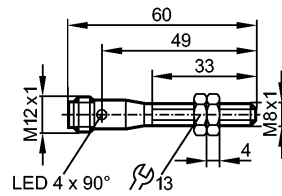


**IEC203**

IEK3002BANKG/AM/US-104-DNS

Inductive sensors



**Product characteristics**

|                                         |
|-----------------------------------------|
| Inductive sensor                        |
| Metal thread M8 x 1                     |
| Connector                               |
| Full metal housing                      |
| Increased sensing range                 |
| Gold-plated contacts                    |
| Sensing range 2 mm; [f] flush mountable |

**Electrical data**

|                             |            |
|-----------------------------|------------|
| Electrical design           | DC NPN     |
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | < 20       |
| Protection class            | III        |
| Reverse polarity protection | yes        |

**Outputs**

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

**Range**

|                         |         |
|-------------------------|---------|
| Sensing range [mm]      | 2       |
| Operating distance [mm] | 0...1.6 |

**Accuracy / deviations**

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| Correction factors   | stainless steel approx. 0.6 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2 |
| Hysteresis [% of Sr] | 1...20                                                                            |

**Environment**

|                          |                          |
|--------------------------|--------------------------|
| Pressure rating [bar]    | 100; sensing face        |
| Ambient temperature [°C] | -25...70                 |
| Protection               | IP 67 / IP 68; "Coolant" |

**Tests / approvals**

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

|              |      |
|--------------|------|
| MTTF [Years] | 1899 |
|--------------|------|

**Mechanical data**

**IEC203**

IEK3002BANKG/AM/US-104-DNS

**Inductive sensors**

|                   |                                                                                                                                             |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting          | flush mountable                                                                                                                             |
| Housing materials | housing: stainless steel 316L / 1.4404; active face: stainless steel 316L / 1.4404; lock nuts: stainless steel 316L / 1.4404; connector: PA |
| Weight [kg]       | 0.021                                                                                                                                       |

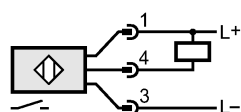
**Displays / operating elements**

|                          |     |                  |
|--------------------------|-----|------------------|
| Output status indication | LED | yellow (4 x 90°) |
|--------------------------|-----|------------------|

**Electrical connection**

|            |                                     |
|------------|-------------------------------------|
| Connection | M12 connector; Gold-plated contacts |
|------------|-------------------------------------|

**Wiring**



**Accessories**

|                        |             |
|------------------------|-------------|
| Accessories (included) | 2 lock nuts |
|------------------------|-------------|

**Remarks**

|                       |   |
|-----------------------|---|
| Pack quantity [piece] | 1 |
|-----------------------|---|