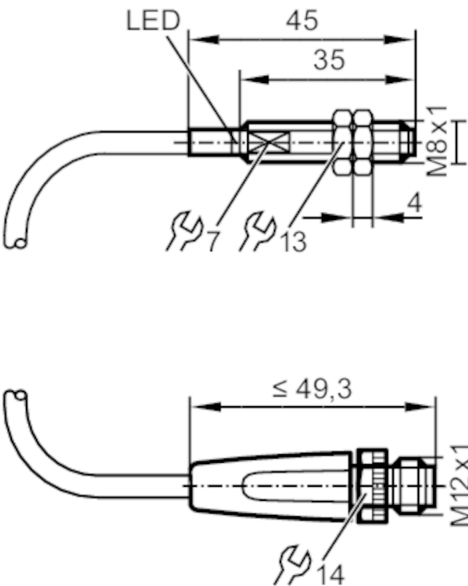




Inductive full-metal sensor

IEB2002BARKG/AM/SC/UP/0,3M/US/



| Product characteristics                              |  |
|--|--|
| Electrical design                                    | PNP/NPN  |
| Output function                                      | normally open  |
| Sensing range [mm]                                   | 2  |
| Housing  | threaded type  |
| Dimensions [mm]                                      | M8 x 1 / L = 45  |
| Application  |  |
| Special feature                                      | Gold-plated contacts; Increased sensing range; Full-metal housing; Optical setting aid; anti-spatter |
| Application  | Use in welding applications  |
| Pressure rating [bar]                                | 50   |
| Note on pressure rating                              | sensing face   |
| Electrical data                                      |  |
| Operating voltage [V]                                | 10...36 DC   |
| Protection class                                     | III  |
| Reverse polarity protection                          | yes  |
| Outputs  |  |
| Electrical design                                    | PNP/NPN  |
| Output function                                      | normally open  |
| Max. voltage drop switching output DC [V]            | 4.5  |
| Minimum load current [mA]                            | 2  |
| Max. leakage current [mA]                            | 0.75   |
| Permanent current rating of switching output DC [mA] | 100  |



## Inductive full-metal sensor

IEB2002BARKG/AM/SC/UP/0,3M/US/

|                                      |                           |  |
|--------------------------------------|---------------------------|--|
| Switching frequency DC               | [Hz]                      | 150  |
| Short-circuit protection             |                           | yes  |
| Type of short-circuit protection     |                           | pulsed   |
| Overload protection                  |                           | yes  |
| <b>Detection zone</b>                |                           |  |
| Sensing range                        | [mm]                      | 2  |
| Operating distance                   | [mm]                      | 0...1.6  |
| Increased sensing range              |                           | yes  |
| <b>Accuracy / deviations</b>         |                           |  |
| Correction factor                    |                           | steel: 1 / stainless steel: 0.6 / brass: 0.4 / aluminium: 0.3 / copper: 0.2  |
| Hysteresis                           | [% of Sr]                 | 1...20   |
| <b>Operating conditions</b>          |                           |  |
| Ambient temperature                  | [°C]                      | -25...70   |
| Protection                           |                           | IP 67  |
| <b>Tests / approvals</b>             |                           |  |
| EMC                                  | EN 61000-4-2 ESD          | 4 kV 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  |
| Impact resistance                    |                           | 1 J  |
| MTTF                                 | [years]                   | 1460   |
| UL approval                          | Ta                        | 0...40 °C  |
|                                      | Enclosure type            | Type 1   |
|                                      | power supply              | Limited Voltage/Current  |
|                                      | File number UL            | E174191  |
| <b>Mechanical data</b>               |                           |  |
| Weight                               | [g]                       | 35.9   |
| Housing                              |                           | threaded type  |
| Mounting                             |                           | flush mountable  |
| Dimensions                           | [mm]                      | M8 x 1 / L = 45  |
| Thread designation                   |                           | M8 x 1   |
| Materials                            |                           | housing: stainless steel (1.4404 / 316L) anti-spatter; sensing face: stainless steel (1.4404 / 316L) anti-spatter; lock nuts: stainless steel (1.4404 / 316L) anti-spatter |
| Full-metal housing                   |                           | yes  |
| <b>Displays / operating elements</b> |                           |  |
| Display                              | switching status          | 1 x LED, green   |
|                                      | setting aid               | 1 x LED, red   |
| Optical setting aid                  |                           | yes  |
| <b>Accessories</b>                   |                           |  |
| Items supplied                       |                           | lock nuts: 2   |
| <b>Remarks</b>                       |                           |  |
| Pack quantity                        |                           | 1 pcs.   |

# IER206



## Inductive full-metal sensor

IEB2002BARKG/AM/SC/UP/0,3M/US/

### Electrical connection - plug

Cable: 0.3 m, PUR; 2 x 0.34 mm<sup>2</sup>

Connector: 1 x M12; coding: A; Contacts: gold-plated

