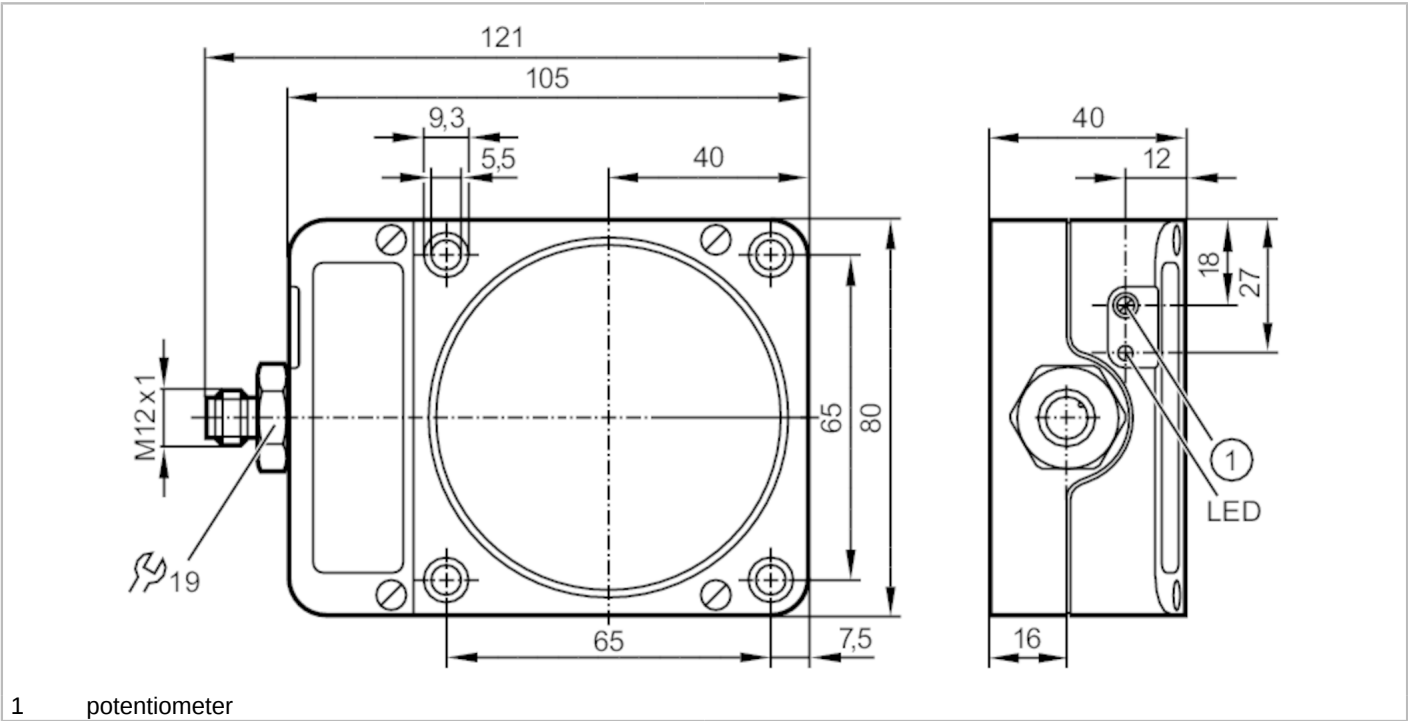


ID5046



Inductive sensor

IDE3060-FPKG/US-100-DPS



1 potentiometer



| Product characteristics                         |      |                                      |
|-------------------------------------------------|------|--------------------------------------|
| Electrical design                               |      | PNP                                  |
| Output function                                 |      | normally open / closed; (selectable) |
| Sensing range                                   | [mm] | 20...60                              |
| Housing                                         |      | rectangular                          |
| Dimensions                                      | [mm] | 105 x 80 x 40                        |
| Electrical data                                 |      |                                      |
| Operating voltage                               | [V]  | 10...36 DC                           |
| Current consumption                             | [mA] | < 15                                 |
| Protection class                                |      | II                                   |
| Reverse polarity protection                     |      | yes                                  |
| Outputs                                         |      |                                      |
| Electrical design                               |      | PNP                                  |
| Output function                                 |      | normally open / closed; (selectable) |
| Max. voltage drop switching output DC           | [V]  | 2.5                                  |
| Permanent current rating of switching output DC | [mA] | 250                                  |
| Switching frequency DC                          | [Hz] | 100                                  |
| Short-circuit protection                        |      | yes                                  |
| Type of short-circuit protection                |      | yes (non-latching)                   |
| Overload protection                             |      | yes                                  |
| Monitoring range                                |      |                                      |
| Sensing range                                   | [mm] | 20...60                              |



## Inductive sensor

IDE3060-FPKG/US-100-DPS

|                               |                                                                                  |                                                                            |
|-------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Sensing range adjustable      |                                                                                  | yes                                                                        |
| Factory setting sensing range | [mm]                                                                             | 60                                                                         |
| Real sensing range Sr         | [mm]                                                                             | 60 ± 10 %                                                                  |
| Operating distance            | [mm]                                                                             | 0...48.6                                                                   |
| Accuracy / deviations         |                                                                                  |                                                                            |
| Correction factor             |                                                                                  | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 |
| Hysteresis                    | [% of Sr]                                                                        | 1...15                                                                     |
| Switch-point drift            | [% of Sr]                                                                        | -10...10                                                                   |
| Operating conditions          |                                                                                  |                                                                            |
| Ambient temperature           | [°C]                                                                             | -25...80                                                                   |
| Protection                    |                                                                                  | IP 67                                                                      |
| Tests / approvals             |                                                                                  |                                                                            |
| 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 61000-4-5 Surge                                                               | 0,5 kV line to line, Ri: 2 Ohm                                             |
|                               | EN 61000-4-6 HF conducted                                                        | 3 V                                                                        |
|                               | EN 55011                                                                         | class B                                                                    |
| MTTF                          | [years]                                                                          | 1277                                                                       |
| UL approval                   | Ta                                                                               | 0...40 °C                                                                  |
|                               | Enclosure type                                                                   | Type 1                                                                     |
|                               | voltage supply                                                                   | Hazardous voltage                                                          |
|                               | File number UL                                                                   | E174191                                                                    |
| Mechanical data               |                                                                                  |                                                                            |
| Weight                        | [g]                                                                              | 440.5                                                                      |
| Housing                       |                                                                                  | rectangular                                                                |
| Mounting                      |                                                                                  | non-flush mountable                                                        |
| Dimensions                    | [mm]                                                                             | 105 x 80 x 40                                                              |
| Material                      |                                                                                  | PPE                                                                        |
| Displays / operating elements |                                                                                  |                                                                            |
| Display                       | Switching status                                                                 | 1 x LED, yellow                                                            |
| Accessories                   |                                                                                  |                                                                            |
| Items supplied                |                                                                                  | screwdriver: 1                                                             |
| Remarks                       |                                                                                  |                                                                            |
| Remarks                       | For the normally closed function, connect pin 3 (blue) to terminal 5 in the unit |                                                                            |
| Pack quantity                 | 1 pcs.                                                                           |                                                                            |

# ID5046



## Inductive sensor

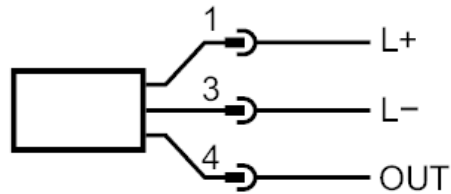
IDE3060-FPKG/US-100-DPS

### Electrical connection - plug

Connector: 1 x M12; coding: A



### Connection



|    |        |
|----|--------|
| 1: | L+     |
| 3: | L-     |
| 4: | OUT DO |