

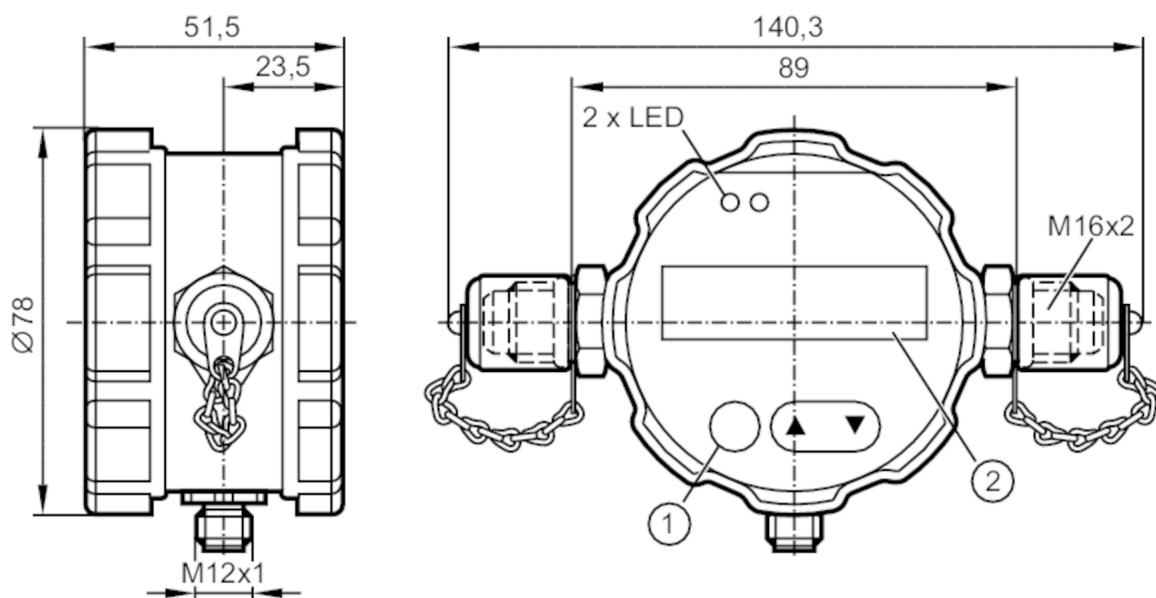
# LDP100



## Optical oil particle monitor

OIL PARTICLE MONITOR

For 8-pole sockets the core colours are not standardised.  
Please note the wiring of the sensor and the sockets (see data sheet).  
Please see the technical note under "Downloads"



- 1 programming buttons
- 2 Display



### Product characteristics

|                              |   |
|------------------------------|---|
| Number of inputs and outputs | Number of digital outputs: 1; Number of analogue outputs: 1 |
| Process connection           | threaded connection M16 x 2 external thread Minimes         |

### Application

|       |   |
|-------|---|
| Media | mineral oils (e.g. HLP); ester oils (e.g. HEES); biodegradable oils (e.g. HETG) |
|-------|---|

### Oil

|                    |      |          |
|--------------------|------|----------|
| Medium temperature | [°C] | -10...80 |
|--------------------|------|----------|

### Electrical data

|                     |      |               |
|---------------------|------|---------------|
| Operating voltage   | [V]  | 9...33 DC     |
| Current consumption | [mA] | 9...50        |
| Protection class    |      | III           |
| Measuring principle |      | photoelectric |

### Inputs / outputs

|                              |   |
|------------------------------|---|
| Number of inputs and outputs | Number of digital outputs: 1; Number of analogue outputs: 1 |
|------------------------------|---|

### Outputs

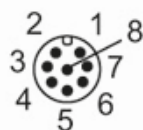
|  |     |
|--|-----|
| Total number of outputs                              | 2   |
| Number of digital outputs                            | 1   |
| Permanent current rating of switching output DC [mA] | 500 |
| Number of analogue outputs                           | 1   |



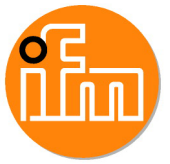
## Optical oil particle monitor

OIL PARTICLE MONITOR

|                                      |         |  |
|--------------------------------------|---------|--|
| Analogue current output              | [mA]    | 4...20   |
| Max. load                            | [Ω]     | (U <sub>b</sub> - 4 V) / 20 mA; U <sub>b</sub> = 24 V: 1000                                  |
| Short-circuit proof                  |         | no   |
| Overload protection                  |         | no   |
| <b>Measuring/setting range</b>       |         |  |
| Measuring range                      |         | 10...22; (range number)  |
| Display range                        |         | 0...24; (range number)   |
| <b>Accuracy / deviations</b>         |         |  |
| Accuracy                             |         | ± 1; (range number)  |
| <b>Software / programming</b>        |         |  |
| Parameter setting options            |         | via buttons, PC or digital I/O   |
| <b>Interfaces</b>                    |         |  |
| Communication interface              |         | CAN  |
| <b>Operating conditions</b>          |         |  |
| Ambient temperature                  | [°C]    | -10...60   |
| Storage temperature                  | [°C]    | -20...60   |
| Protection                           |         | IP 67  |
| <b>Tests / approvals</b>             |         |  |
| MTTF                                 | [years] | 129  |
| Pressure Equipment Directive         |         | article 3, paragraph (3) - Sound Engineering Practice  |
| <b>Mechanical data</b>               |         |  |
| Weight                               | [g]     | 829  |
| Materials (wetted parts)             |         | stainless steel (420/1.4028); sapphire; NBR; chromium  |
| Process connection                   |         | threaded connection M16 x 2 external thread Minimes  |
| <b>Displays / operating elements</b> |         |  |
| Display                              |         | 1 LED, green Power   |
|                                      |         | 1 LED, red Alarm   |
|                                      |         | LC display, displayed value conforms to the cleanliness level to ISO 4406:99 and SAE AS4059E |
| <b>Remarks</b>                       |         |  |
| Pack quantity                        |         | 1 pcs.   |
| <b>Electrical connection</b>         |         |  |
| Connector: 1 x M12; coding: A        |         |  |



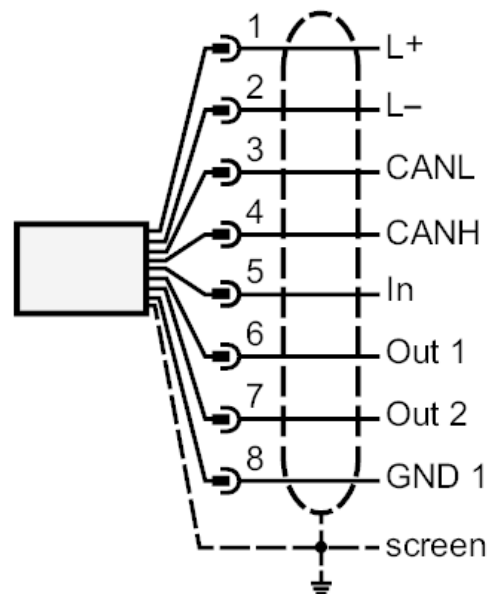
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### Connection



|            |   |
|------------|---|
| CANL/CANH: | CAN   |
| In:        | switching input low level activates measuring cycle |
| Out 1:     | analogue output                                     |
| Out 2:     | switching output                                    |
| GND 1:     | signal ground Out 1                                 |
| L-/screen: | connected to the housing                            |