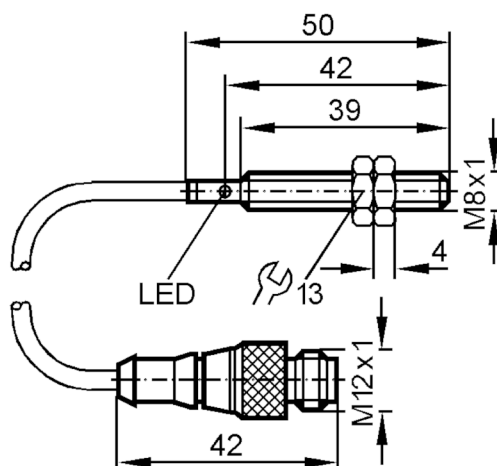


## Inductive sensor

IEA2001-AROG/0,80M/US

Article no longer available - archive entry



## Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP/NPN       |
| Output function    | normally open |
| Sensing range [mm] | 1             |
| Housing            | threaded type |
| Dimensions [mm]    | M8 x 1        |

## Electrical data

|                             |           |
|-----------------------------|-----------|
| Operating voltage [V]       | 5...36 DC |
| Protection class            | II        |
| Reverse polarity protection | no        |

## Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP/NPN       |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 4.6           |
| Minimum load current [mA]                            | 4             |
| Max. leakage current [mA]                            | 0.8           |
| Permanent current rating of switching output DC [mA] | 200           |
| Switching frequency DC [Hz]                          | 2000          |
| Short-circuit protection                             | no            |
| Overload protection                                  | no            |

# IE5241



## Inductive sensor

IEA2001-AROG/0,80M/US

| Detection zone                                                                      |                  |                                                                             |
|-------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------|
| Sensing range                                                                       | [mm]             | 1                                                                           |
| Real sensing range Sr                                                               | [mm]             | 1 ± 10 %                                                                    |
| Operating distance                                                                  | [mm]             | 0...0.8                                                                     |
| Accuracy / deviations                                                               |                  |                                                                             |
| Correction factor                                                                   |                  | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 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 60947-5-2     |                                                                             |
|                                                                                     | EN 55011         | class B                                                                     |
| Mechanical data                                                                     |                  |                                                                             |
| Housing                                                                             |                  | threaded type                                                               |
| Mounting                                                                            |                  | flush mountable                                                             |
| Dimensions                                                                          | [mm]             | M8 x 1                                                                      |
| Thread designation                                                                  |                  | M8 x 1                                                                      |
| Materials                                                                           |                  | brass nickel-plated; PBT                                                    |
| Displays / operating elements                                                       |                  |                                                                             |
| Display                                                                             | switching status | 1 x LED, yellow                                                             |
| Accessories                                                                         |                  |                                                                             |
| Items supplied                                                                      |                  | lock nuts: 2                                                                |
| Remarks                                                                             |                  |                                                                             |
| Pack quantity                                                                       |                  | 1 pcs.                                                                      |
| Electrical connection - plug                                                        |                  |                                                                             |
| Cable: 0.8 m, PUR                                                                   |                  |                                                                             |
| Connector: 1 x M12; coding: A                                                       |                  |                                                                             |
|  |                  |                                                                             |

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### Connection

