

# IN509A



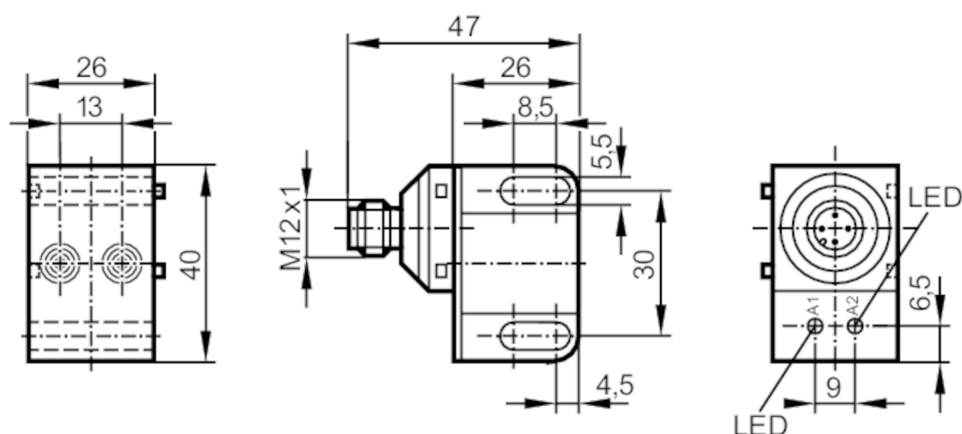
## Dual inductive sensor for valve actuators

IND3004DBPKG/US/3D

Article no longer available - archive entry

Alternative articles: IN507A

When selecting an alternative article and accessories please note that technical data may differ!



### Product characteristics

|                    |                   |
|--------------------|-------------------|
| Electrical design  | PNP               |
| Output function    | 2 x normally open |
| Sensing range [mm] | 4                 |
| Housing            | rectangular       |
| Dimensions [mm]    | 40 x 26 x 47      |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 15       |
| Protection class            | III        |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |                    |
|------------------------------------------------------|--------------------|
| Electrical design                                    | PNP                |
| Output function                                      | 2 x normally open  |
| Max. voltage drop switching output DC [V]            | 2.5                |
| Permanent current rating of switching output DC [mA] | 100                |
| Short-time current rating of switching output [mA]   | 100                |
| Switching frequency DC [Hz]                          | 1300               |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

### Monitoring range

|                    |   |
|--------------------|---|
| Sensing range [mm] | 4 |
|--------------------|---|

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|                       |      |          |
|-----------------------|------|----------|
| Real sensing range Sr | [mm] | 4 ± 10 % |
| Operating distance    | [mm] | 0...3.2  |

| Accuracy / deviations |           |                                                                            |
|-----------------------|-----------|----------------------------------------------------------------------------|
| Correction factor     |           | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |
| Hysteresis            | [% of Sr] | 1...15                                                                     |
| Switch-point drift    | [% of Sr] | -10...10                                                                   |

| Operating conditions |      |          |
|----------------------|------|----------|
| Ambient temperature  | [°C] | -20...60 |
| Protection           |      | IP 67    |

| Tests / approvals    |  |                                                                                                                               |
|----------------------|--|-------------------------------------------------------------------------------------------------------------------------------|
| ATEX marking         |  |  II 3D Ex tD A22 IP67 T80°C X Ta: -20...60°C |
| Note on ATEX marking |  | only in conjunction with the mounting plate                                                                                   |
| EMC                  |  | EN 60947-5-2                                                                                                                  |

| Mechanical data |      |                         |
|-----------------|------|-------------------------|
| Weight          | [g]  | 0.1                     |
| Housing         |      | rectangular             |
| Mounting        |      | non-flush mountable     |
| Dimensions      | [mm] | 40 x 26 x 47            |
| Material        |      | housing: PBT; cover: PC |

| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | Switching status | 2 x LED, yellow |

| Accessories    |  |                                                      |
|----------------|--|------------------------------------------------------|
| Items supplied |  | Mounting plate: 1<br>socket head screws: 2 x M5 x 35 |

| Remarks       |  |        |
|---------------|--|--------|
| Pack quantity |  | 1 pcs. |

### Electrical connection - plug

Connector: 1 x M12; coding: A



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### Connection



Core colors :

|      |       |
|------|-------|
| BK = | black |
| BN = | brown |
| BU = | blue  |
| WH = | white |