

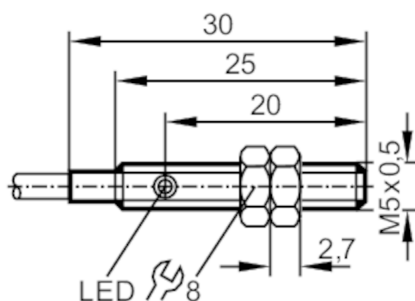
# IY5030



## Inductive sensor

IYB20,8-AROG

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### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Reverse polarity protection | no         |

### Outputs

|  |               |
|--|---------------|
| Electrical design                                    | PNP/NPN       |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 2.5           |
| Max. leakage current [mA]                            | 1             |
| Permanent current rating of switching output DC [mA] | 100           |
| Switching frequency DC [Hz]                          | 2000          |
| Short-circuit protection                             | no            |
| Overload protection                                  | no            |

### Detection zone

|                               |                |
|-------------------------------|----------------|
| Sensing range [mm]            | 0.8            |
| Real sensing range $S_r$ [mm] | $0.8 \pm 10\%$ |
| Operating distance [mm]       | 0...0.65       |

### Accuracy / deviations

|                                  |   |
|----------------------------------|---|
| Correction factor                | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis [% of $S_r$ ]         | 1...15  |
| Switch point drift [% of $S_r$ ] | -10...10  |

### Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
| Protection               | IP 65    |

### Tests / approvals

|     |              |         |
|-----|--------------|---------|
| EMC | EN 60947-5-2 | class B |
|     | EN 55011     |         |

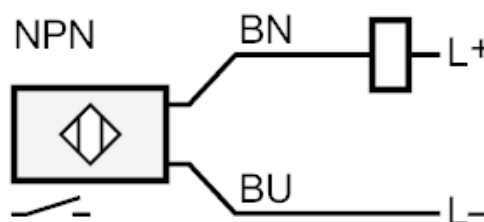
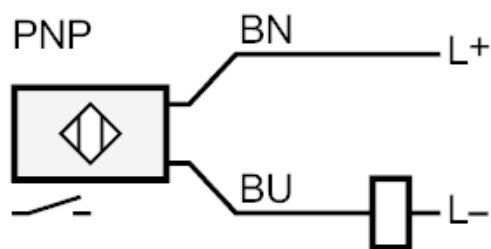
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## Inductive sensor

IYB20,8-AROG

| Mechanical data                           |                  |                                     |
|---|------------------|-------------------------------------|
| Housing                                   |                  | threaded type                       |
| Mounting                                  |                  | flush mountable                     |
| Dimensions                                | [mm]             | M5 x 0.5 / L = 30                   |
| Thread designation                        |                  | M5 x 0.5                            |
| Materials                                 |                  | stainless steel (1.4305 / 303); POM |
| Displays / operating elements             |                  |                                     |
| Display                                   | switching status | 1 x LED, yellow                     |
| Accessories                               |                  |                                     |
| Accessories (supplied)                    |                  | lock nuts: 2                        |
| Remarks                                   |                  |                                     |
| Pack quantity                             |                  | 1 pcs.                              |
| Electrical connection                     |                  |                                     |
| Cable: 2 m, PVC; 2 x 0.14 mm <sup>2</sup> |                  |                                     |
| Connection                                |                  |                                     |



Core colours :

BN = brown

BU = blue

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