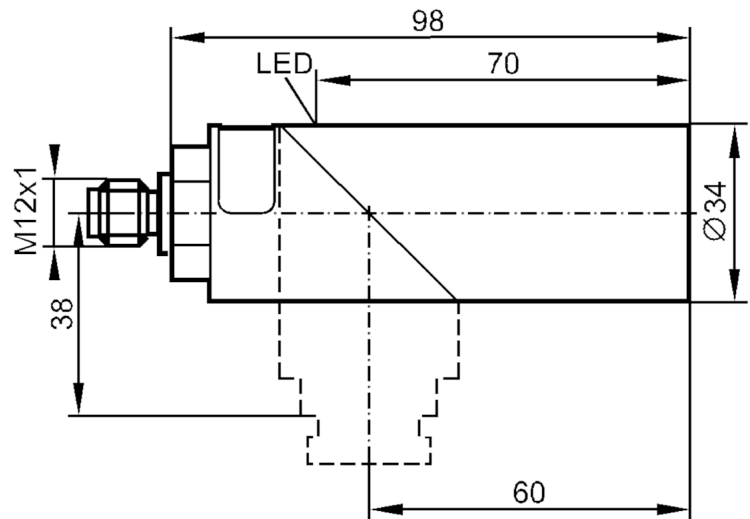


# IB5162



## Inductive sensor

IBE3020-FPKG/US-100-KPX



| Product characteristics                         |      |                                      |
|-------------------------------------------------|------|--------------------------------------|
| Electrical design                               |      | PNP                                  |
| Output function                                 |      | normally open / closed; (selectable) |
| Sensing range                                   | [mm] | 20                                   |
| Housing                                         |      | tubular                              |
| Dimensions                                      | [mm] | Ø 34 / L = 98                        |
| Electrical data                                 |      |                                      |
| Operating voltage                               | [V]  | 10...36 DC                           |
| Current consumption                             | [mA] | 15; (24 V)                           |
| 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] | 350                                  |
| Short-circuit protection                        |      | yes                                  |
| Type of short-circuit protection                |      | yes (non-latching)                   |
| Overload protection                             |      | yes                                  |
| Monitoring range                                |      |                                      |
| Sensing range                                   | [mm] | 20                                   |

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IBE3020-FPKG/US-100-KPX

|                       |      |           |
|-----------------------|------|-----------|
| Real sensing range Sr | [mm] | 20 ± 10 % |
| Operating distance    | [mm] | 0...16.2  |

| Accuracy / deviations |           |                                                                            |
|-----------------------|-----------|----------------------------------------------------------------------------|
| Correction factor     |           | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |
| Hysteresis            | [% of Sr] | 3...15                                                                     |
| Switch-point drift    | [% of Sr] | -10...10                                                                   |

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

| Tests / approvals |              |         |
|-------------------|--------------|---------|
| EMC               | EN 60947-5-2 |         |
|                   | EN 55011     | class B |
| MTTF              | [years]      | 2450    |

| Mechanical data |      |                                |
|-----------------|------|--------------------------------|
| Weight          | [g]  | 186                            |
| Housing         |      | tubular                        |
| Mounting        |      | non-flush mountable            |
| Dimensions      | [mm] | Ø 34 / L = 98                  |
| Material        |      | PBT; bevelled housing part: PC |

| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | Switching status | 1 x LED, yellow |

| Accessories    |  |                   |
|----------------|--|-------------------|
| Items supplied |  | Mounting clamp: 1 |

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

### Electrical connection - plug

Connector: 1 x M12; coding: A



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### Connection

