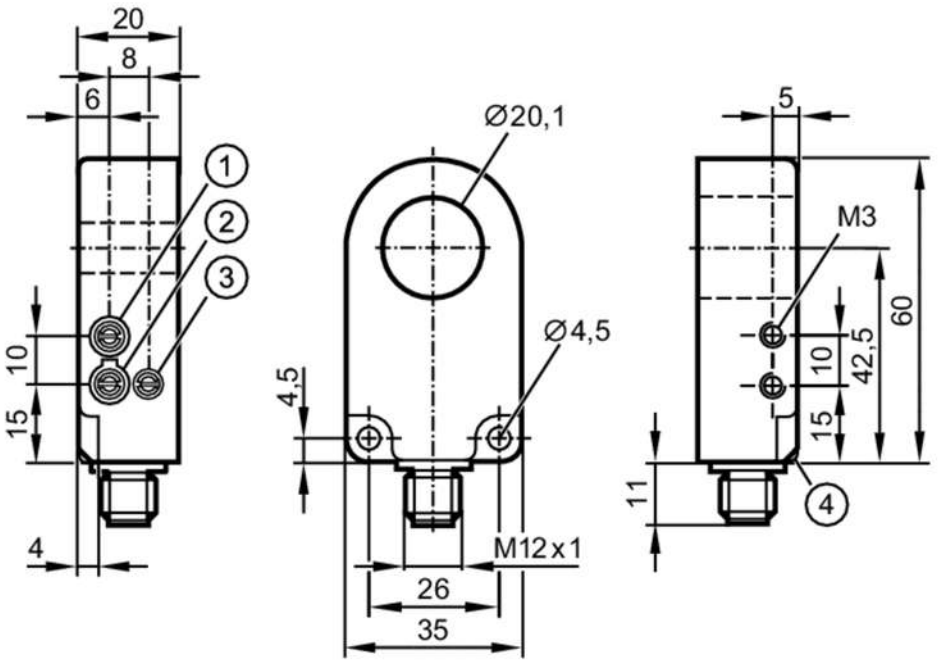
# I7R209

## Inductive ring sensor

I7R3020-FPKG/US-100-IPF




1 sensitivity
2 Output function
3 pulse stretching time

| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | PNP |
| Output function | | normally open / normally closed; (selectable) |
| Housing | | circular |
| Dimensions | [mm] | 60 x 35 x 20 |
| **Application** | | |
| Operating principle | | static |
| **Electrical data** | | |
| Operating voltage | [V] | 10...35 DC |
| Current consumption | [mA] | < 11 |
| Protection class | | III |
| Reverse polarity protection | | yes |
| **Outputs** | | |
| Electrical design | | PNP |
| Output function | | normally open / normally closed; (selectable) |
| Max. voltage drop switching output DC | [V] | 2 |
| Permanent current rating of switching output DC | [mA] | 200 |
| Short-circuit protection | | yes |
| Overload protection | | yes |

# I7R209

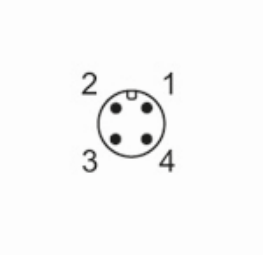
## Inductive ring sensor

I7R3020-FPKG/US-100-IPF

| | | | |
|---|---|---|---|
| **Detection zone** | | | |
| Resolution of steel ball (diameter) | [mm] | 2.5 | |
| Max. part speed | [m/s] | 35 | |
| **Response times** | | | |
| Pulse stretching | [ms] | 10...150 | |
| Pulse stretching adjustable | | yes | |
| Max. fall time | [ms] | 10 | |
| Response time | [ms] | < 0.5 | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -25...70 | |
| Protection | | IP 67 | |
| **Tests / approvals** | | | |
| MTTF | [years] | 658 | |
| UL approval | | Ta | -25...70 °C |
| | | Enclosure type | Type 4X (indoor use only) / 12 and 13 |
| | | power supply | Class 2 |
| | | File number UL | E174191 |
| **Mechanical data** | | | |
| Weight | [g] | 58.4 | |
| Housing | | circular | |
| Dimensions | [mm] | 60 x 35 x 20 | |
| Inside diameter | [mm] | 20.1 | |
| Materials | | housing: PA; ring: POM | |
| **Displays / operating elements** | | | |
| Display | | switching status | 1 x LED, yellow |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |

**Electrical connection - plug**

Connector: 1 x M12; coding: A



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## Inductive ring sensor

**I7R3020-FPKG/US-100-IPF**

## Connection

