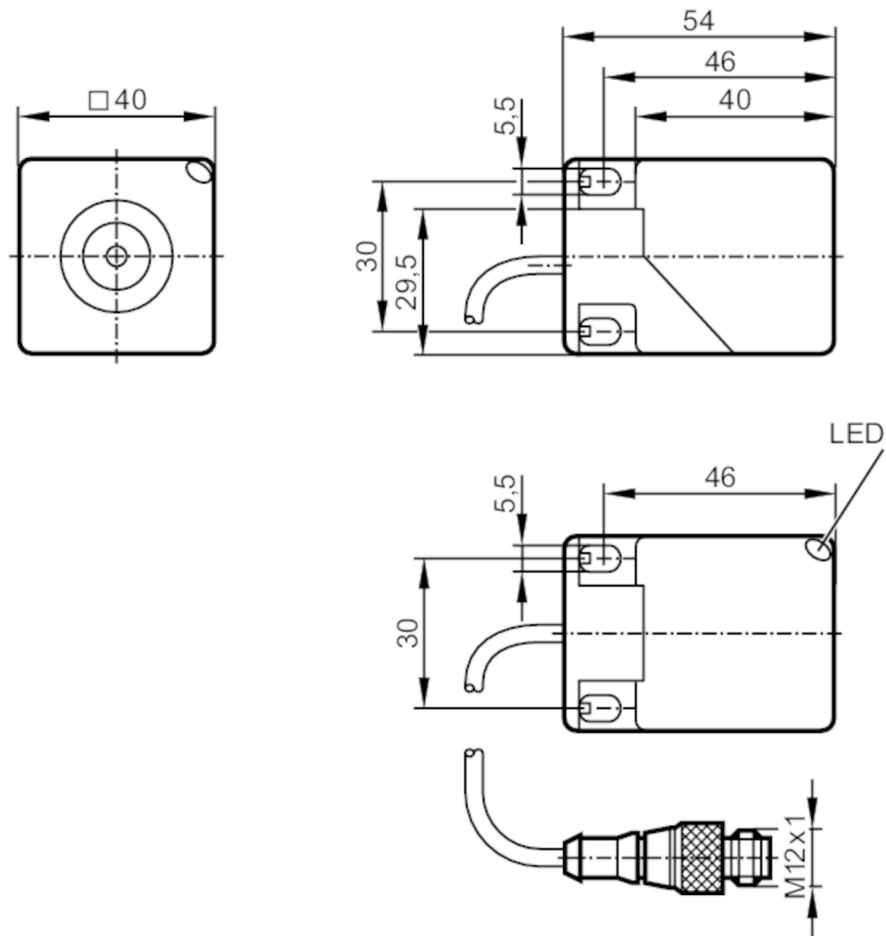


# IM5138



## Inductive sensor

IMC2015-ARKG/UP/0,8M/ZH/US



| Product characteristics               |      |               |
|---------------------------------------|------|---------------|
| Electrical design                     |      | PNP/NPN       |
| Output function                       |      | normally open |
| Sensing range                         | [mm] | 15            |
| Housing                               |      | rectangular   |
| Dimensions                            | [mm] | 40 x 40 x 54  |
| Electrical data                       |      |               |
| Operating voltage                     | [V]  | 10...36 DC    |
| Protection class                      |      | II            |
| Reverse polarity protection           |      | yes           |
| Outputs                               |      |               |
| Electrical design                     |      | PNP/NPN       |
| Output function                       |      | normally open |
| Max. voltage drop switching output DC | [V]  | 4.6           |
| Minimum load current                  | [mA] | 2             |
| Max. leakage current                  | [mA] | 0.8           |



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|                                                 |      |        |
|-------------------------------------------------|------|--------|
| Permanent current rating of switching output DC | [mA] | 100    |
| Switching frequency DC                          | [Hz] | 200    |
| Short-circuit protection                        |      | yes    |
| Type of short-circuit protection                |      | pulsed |
| Overload protection                             |      | yes    |

| Detection zone        |      |           |
|-----------------------|------|-----------|
| Sensing range         | [mm] | 15        |
| Real sensing range Sr | [mm] | 15 ± 10 % |
| Operating distance    | [mm] | 0...12.1  |

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

| Operating conditions |      |          |
|----------------------|------|----------|
| Ambient temperature  | [°C] | -25...70 |
| Protection           |      | IP 67    |

| Tests / approvals |                           |                                |
|-------------------|---------------------------|--------------------------------|
| EMC               | EN 61000-4-2 ESD          | 8 kV CD / 6 kV AD              |
|                   | EN 61000-4-3 HF radiated  | 10 V/m                         |
|                   | EN 61000-4-4 Burst        | 2 kV                           |
|                   | EN 61000-4-5 Surge        | 0,5 kV line to line, Ri: 2 Ohm |
|                   | EN 61000-4-6 HF conducted | 10 V                           |
|                   | EN 55011                  | class B                        |
| MTTF              | [years]                   | 1740                           |

| Mechanical data |      |                        |
|-----------------|------|------------------------|
| Weight          | [g]  | 161.7                  |
| Housing         |      | rectangular            |
| Sensing face    |      | 5 positions selectable |
| Mounting        |      | flush mountable        |
| Dimensions      | [mm] | 40 x 40 x 54           |
| Materials       |      | PA                     |

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

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

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### Electrical connection - plug

Cable: 0.8 m, PUR

Connector: 1 x M12; coding: A; Locking: knurled nut, rotatable

