



## Inductive sensor

IMC2015UARLA/SC/LS300BL/4,5CSA

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## Product characteristics

|                 |      |               |
|-----------------|------|---------------|
| Output function |      | normally open |
| Sensing range   | [mm] | 15            |
| Housing         |      | rectangular   |
| Dimensions      | [mm] | 40 x 40 x 66  |

## Application

|                       |  |                                     |
|-----------------------|--|-------------------------------------|
| Special feature       |  | Magnetic-field immune; anti-spatter |
| Magnetic-field immune |  | yes                                 |

## Electrical data

|                             |      |                           |
|-----------------------------|------|---------------------------|
| Frequency AC                | [Hz] | 47...63                   |
| Operating voltage           | [V]  | 20...140 AC / 10...140 DC |
| Protection class            |      | I                         |
| Reverse polarity protection |      | yes                       |

## Outputs

|                                       |      |                   |
|---------------------------------------|------|-------------------|
| Output function                       |      | normally open     |
| Max. voltage drop switching output DC | [V]  | 5.5               |
| Max. voltage drop switching output AC | [V]  | 5.5               |
| Minimum load current                  | [mA] | 5.5               |
| Max. leakage current                  | [mA] | 4.5 (140 V AC/DC) |



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|                                                 |                                         |                                                                             |
|-------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------|
| Permanent current rating of switching output AC | [mA]                                    | 450                                                                         |
| Permanent current rating of switching output DC | [mA]                                    | 450                                                                         |
| Short-time current rating of switching output   | [mA]                                    | 2200; (20 ms / 0,5 Hz)                                                      |
| Switching frequency AC                          | [Hz]                                    | 25                                                                          |
| Switching frequency DC                          | [Hz]                                    | 100                                                                         |
| Short-circuit protection                        |                                         | yes                                                                         |
| Type of short-circuit protection                |                                         | latching (restart interlock after short circuit)                            |
| 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]                               | 3...15                                                                      |
| Switch point drift                              | [% of Sr]                               | -10...10                                                                    |
| Operating conditions                            |                                         |                                                                             |
| Ambient temperature                             | [°C]                                    | -25...70                                                                    |
| Protection                                      |                                         | IP 67                                                                       |
| Tests / approvals                               |                                         |                                                                             |
| EMC                                             | EN 60947-5-2                            |                                                                             |
| Mechanical data                                 |                                         |                                                                             |
| Housing                                         |                                         | rectangular                                                                 |
| Mounting                                        |                                         | flush mountable                                                             |
| Dimensions                                      | [mm]                                    | 40 x 40 x 66                                                                |
| Materials                                       |                                         | housing: PPE; sensing face: PEI anti-spatter; clamp: diecast zinc           |
| Displays / operating elements                   |                                         |                                                                             |
| Display                                         | switching status                        | 1 x LED, red                                                                |
|                                                 | operation                               | 1 x LED, green                                                              |
|                                                 | short circuit                           | 1 x LED, green/red alternately flashing                                     |
| Remarks                                         |                                         |                                                                             |
| Remarks                                         | 5 positions of the active zone possible |                                                                             |
| Pack quantity                                   | 1 pcs.                                  |                                                                             |

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### Electrical connection - plug

Connector: 1 x 7/8"; coding: A

