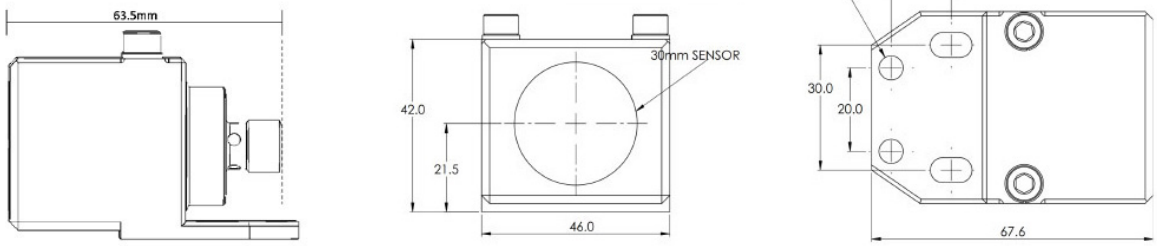
CONTRINEX

# INDUCTIVE SENSOR
# WELD-IMMUNE
# DW-Ax-7x3-M30-1313

| HOUSING | OPERATING DISTANCE | MOUNTING |
|---|---|---|
| M30 | 38 mm | Non-Embeddable |

- ✓ Anti-spatter coating
- ✓ Magnetic-field immunity: medium frequency ≤ 15 kA* 50 Hz fields ≤ 40 mT
- ✓ Robust full-metal sensor, impact resistant
- ✓ Long operating distance
- ✓ Factor 1 on Fe and Al






**DW-Ax-7x3-M30-1313**

*The distance to the welding point must be > 50 mm

| DETECTION DATA | | INTERFACE | |
|---|---|---|---|
| Rated operating distance ($S_n$) | 38 mm | Indicator LED, yellow | Sensing state ($0 \le s \le S_r$) |
| Assured operating distance ($S_a$) | ≤ (0.81 x $S_n$) mm | IO-Link | ✓ |
| Repeat accuracy | ≤ 1.4 mm | MTTF (@40°C) | 1028 y |
| Hysteresis | 3% $S_r$ ≤ Hyst ≤ 15% $S_r$ | | |
| Temperature drift | ≤ 10% $S_r$ | | |
| Standard target | 48 x 48 x 1 mm³, FE360 | | |

Note: $0.9S_n \le S_r \le 1.1S_n$.

| ELECTRICAL DATA | | MECHANICAL DATA | |
|---|---|---|---|
| Supply voltage range ($U_B$) | 15...30 VDC | Mounting | Embeddable |
| Residual ripple | ≤ 20% $U_B$ | Housing material | Sensor: V2A / 1.4305 / AISI 303 (+ coating)<br>Brackets: Base: Steel; Nose: Nylon |
| Output current | ≤ 200 mA | Sensing face material | Sensor: V2A / 1.4305 / AISI 303 (+ coating)<br>Brackets: Nylon |
| Output voltage drop | ≤ 2.0 VDC | Max tightening torque | 150 Nm |
| Power consumption (no-load) | ≤ 10 mA | Ambient operating temperature | -25...+85°C[1] |
| Residual current | ≤ 0.1 mA | Enclosure rating | IP68 / IP69K |
| Switching frequency | ≤ 15 Hz | Weight (cable/connector) | see page 2 |
| Short-circuit protection | ✓ | Shock and vibration | IEC 60947-5-2 |
| Voltage reversal protection | ✓ | | |
| Cable length max. | ≤ 300 m | | |

[1]Maximum temperature according to UL: 70°C.

Note: all data measured according to IEC 60947-5-2 standard with $U_B$=20 … 30VDC, $T_A$=23°C ± 5°C.

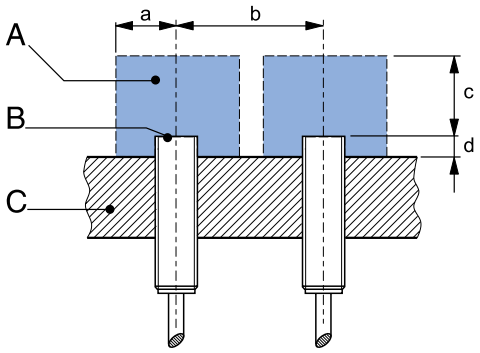

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Route du Pâquis 3 – P.O. Box – CH 1720 Corminboeuf – Switzerland – **Tel:** +41 26 460 46 46
**Fax:** +41 26 460 46 40 – **Internet:** www.contrinex.com – **E-mail:** info@contrinex.com

## CORRECTION FACTORS FOR TARGET OF

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Steel FE 360 | **1** | Copper | **0.8** | Aluminum | **1** | Brass | **1.2** | Stainless Steel V2A 1/2 mm | **0.2 / 0.6** |

## INSTALLATION CONDITIONS




A : metal free zone
B : sensing face
C : support

a : 90 mm
b : 300 mm
c : 120 mm

d : steel 16 mm

Note: additional installation information can be found in the glossary of the Contrinex General Catalog.

## IO-LINK FUNCTIONALITIES

| | |
|---|---|
| IO-Link version | 1.1 |
| SIO mode | Supported |
| Process data | 7-bit input |
| Baudrate | COM2 (38.4 kBaud) |
| Minimum cycle time | 10.4 ms |
| ISDU | Not supported |

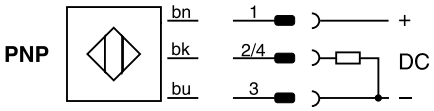
IODD files may be downloaded from

www.contrinex.com/product-range/inductive-sensors/.

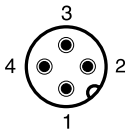
Select the product name to display the product page with corresponding downloads.

Alternatively, just click/scan the QR code on the left.

## WIRING DIAGRAM




## PIN ASSIGNMENT




M12

## AVAILABLE TYPES

### COATED

| Part number | Part reference | Old ref. | Polarity | Connection | Output on pin 2 | Output on pin 4 / bk | Weight |
|---|---|---|---|---|---|---|---|
| 330-320-214 | DW-AS-713-M30-1313* | - | PNP | M12 4-pin | - | Normally open (NO) / IO-Link | 315 g |

*DW-AS-713-M30-693 mounted in ASU-0061-300

Note: part reference may include additional suffix to indicate a revision version or special version. Further information is available on request.

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