

All-metal inductive proximity switches, series 700



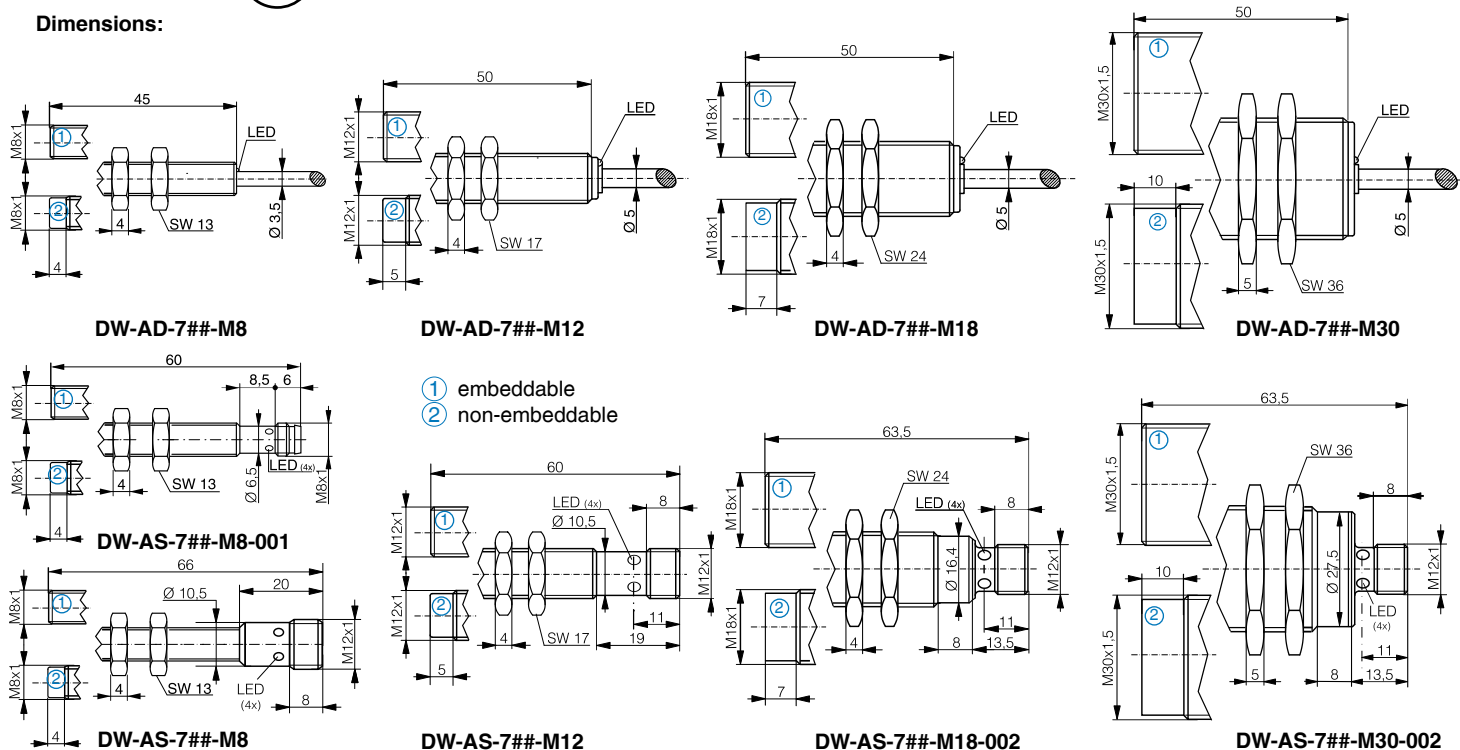
Features

- Long operating distances on steel
- Approximately the same long operating distances on aluminum, brass, etc.
- One-piece stainless-steel housing, including sensing face, therefore extremely robust and exceptionally impermeable
- Indication of secured operating zone (LED on)

Applications

- Automobile manufacture: detection of aluminum automobile parts
- In difficult environments
- Machine tools: resistant to sharp-edged hot shavings

Dimensions:



Correction factors (typical values for DW-AD-703-M12)

Steel FE 360 **1.0** aluminum **1.0** copper **0.85** brass **1.3** stainless steel 1 mm / 2 mm thick **0.5 / 0.9**

Technical data:

(according to IEC 60947-5-2)

Rated operating distance s_n :

M8 embeddable / non-embeddable	3 mm / 6 mm
M12 embeddable / non-embeddable	6 mm / 10 mm
M18 embeddable / non-embeddable	10 mm / 20 mm
M30 embeddable / non-embeddable	20 mm / 40 mm

Hysteresis

$\leq 15\% s_r$

Repeat accuracy

$\leq 5\% s_r$ ($U_B = 20 \dots 30$ VDC, $T_A = 23 \text{ °C} \pm 5 \text{ °C}$ (73.4 °F \pm 9 °F))

Supply voltage range U_B

10 ... 30 VDC

Output current

200 mA max.

No-load supply current

10 mA max.

Switching frequency:

M8 (embeddable / non-embeddable) 0 ... 800 Hz / 0 ... 400 Hz

M12 (embeddable / non-embeddable) 0 ... 600 Hz / 0 ... 400 Hz

M18 (embeddable / non-embeddable) 0 ... 200 Hz / 0 ... 200 Hz

M30 (embeddable / non-embeddable) 0 ... 120 Hz / 0 ... 100 Hz

Ambient temperature range T_A

-25 ... +70 °C (-13 ... +158 °F)

LED ($0 \leq s \leq 0.8 s_r$)

on

LED ($0.8 s_r < s \leq s_r$)

blinking

Temperature drift of s_r

$\pm 10\%$ max.

Operating pressure: M8

1,450 psi

M12

1,150 psi

M18

850 psi

M30

600 psi

Degree of protection (cable / connector model)

IP 68 / IP 67

EMC protection

IEC 60947-5-2 / EN 60947-5-2

Housing and sensing face material

stainless steel V2A no. 1.4305 (AISI 303)

Connection cable (other lengths on request)

PUR 2m, 3 x 0.34 mm² / 180 x 0.05 mm Ø (M8: 3 x 0.14 mm² / 72 x 0.05 mm Ø)

Connector

S12 (DW-AS-7##-M8-001: S8)

These devices **must not be used** in applications where the **safety of people** is dependent on their functioning. Terms of delivery and rights to change design reserved.

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