

NEXONPRODUCT
distribution parts
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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)

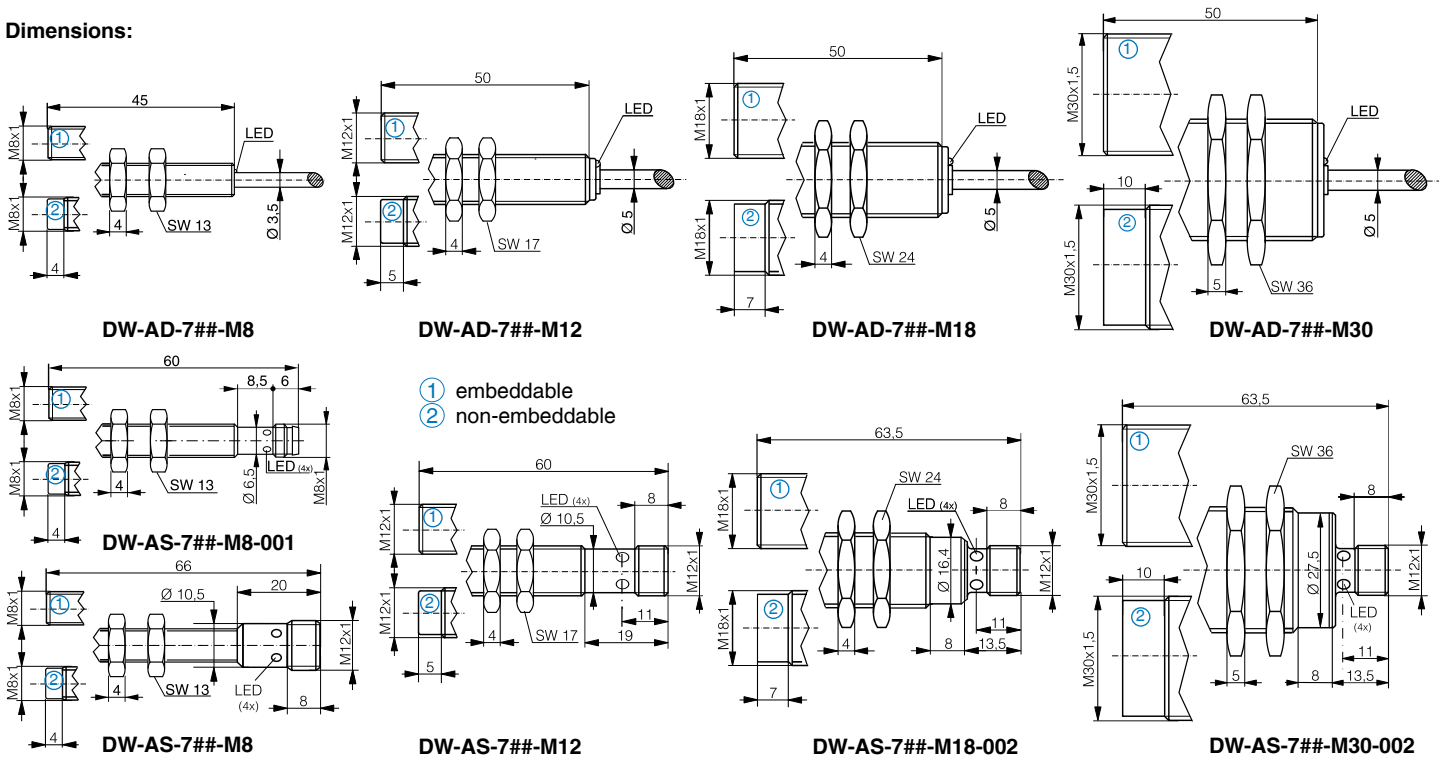
Applications

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



CONTRINEX

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
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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

LED ($0 \leq s \leq 0.8 s_r$) -25 ... +70 °C (-13 ... +158 °F)

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

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 version) IP 68 / IP 67

EMC protection IEC 60947-5-2 / EN 60947-5-2

Housing and sensing face material stainless steel no. 1.4305 (AISI 303)

Connection cable (other lengths on request) PUR 2 m, 3 x 0.34 mm² / 180 x 0.05 mm \varnothing (M8: 3 x 0.14 mm² / 72 x 0.05 mm \varnothing)

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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