



Magneto-resistive Sensors

Series 300 • 20 - NPN

Series 300 • 10 - PNP

Housing M 12 x 1

- Housing material: Stainless steel VA
- Magneto-resistive sensors detect ferromagnetic targets, such as gear wheels, wipers, slitting discs, gear rods, etc.
- Contactless detection of rotary motion, therefore wear-free and maintenance-free operation.
- Measuring range from 0 Hz up to 25 kHz. Ideal for the safe detection of creeping movements as well as fast rotary motions.
- Measuring gear wheel modul size 0.7...4.00
- Width of target gear wheel ≥ 10 mm

Certificate:



Technical data	Flush mountable
Operating sensing distance S_a	< 2 mm (Modul 4), < 1 mm (Modul 1)
Electrical version	3-wire DC
Output	NO
Type NPN	MRS-300-M12-20-S
Art.-No.	360 300
Connection diagram No.	1
Type PNP	MRS-300-M12-10-S
Art.-No.	360 100
Connection diagram No.	4
Operating voltage (U_b)	10...35 V DC
Output current max. (I_o)	250 mA
Voltage drop max. (U_d)	≤ 2.5 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles min. / max.	0.5 Hz / 25 kHz
Permitted ambient temperature	-40...+85 °C / 125 °C*
LED-display	Yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67, IP 69K
Norm	EN 60947-5-2
Connection cable	2 m, silicone, 3 x 0.34 mm ²
Housing material	VA No. 1.4305
Active surface	VA No. 1.4305
Lid	PEEK (FDA 21 CFR 177.2415)

All specifications are subject to change without notice. (11/2013)

