



Certificate:



## Magneto-resistive Sensors with detection of direction of rotation Series 350 • 10 - PNP

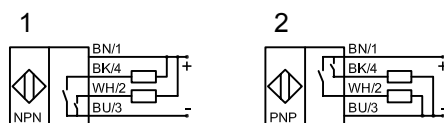
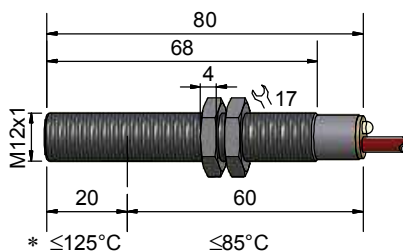
Housing M 12 x 1

- 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  $\geq 10$  mm
- Determination of direction is possible by analysing the 45° phase shift between the two output channels of the sensor.
- With dephased output signal

### Technical data

Flush mountable

Operating sensing distance $S_a$	< 2 mm (Modul 4), < 1 mm (Modul 1)
Electrical version	4-wire DC
Output	Normally open
<b>Type PNP</b>	<b>MRS-350-M12-10-Z</b>
<b>Art.-No.</b>	<b>360 950</b>
Connection diagram No.	2
Operating voltage ( $U_B$ )	10...35 V DC
Output current max. ( $I_e$ )	2 x 250 mA
Voltage drop max. ( $U_d$ )	$\leq 2.5$ V
Permitted residual ripple max.	10 %
No-load current ( $I_0$ )	Typ. 15 mA
Frequency of operating cycles min. / max.	0.5 Hz / 25 kHz
Permitted ambient temperature	-40...+85 °C / 125 °C*
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67, IP 69K
Norm	EN 60947-5-2
Connection cable	2 m, silicone, 4 x 0.14 mm <sup>2</sup>
Housing material	VA No. 1.4305
Active surface	VA No. 1.4305
Lid	PEEK (FDA 21 CFR 177.2415)



BK = Speed control  
WH = detection of direction of rotation dephased

Made in Germany

All specifications are subject to change without notice. (03/2014)