

INDUCTIVE ROTATION SENSORS

211.03en

DESCRIPTION AND APPLICATION



Inductive rotation sensors are intended for monitoring of revolutions or speed. They are suitable especially in case of decentralized control. Inductive rotation sensors perform contactless monitoring of changes (decrease or increase) of revolutions compared with their reference value.

M18 flush



M18 non-flush



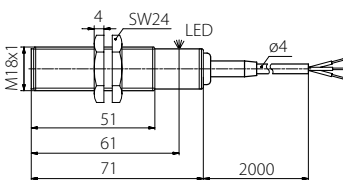
M30 flush



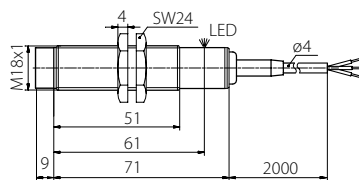
M 30 non-flush



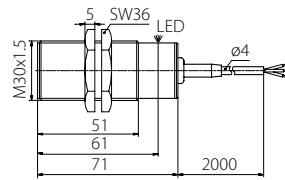
With cable



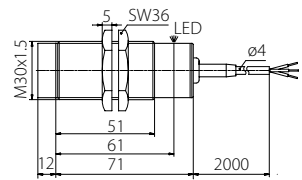
With cable



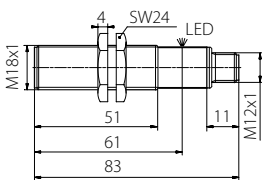
With cable



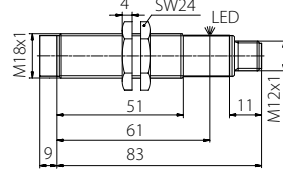
With cable



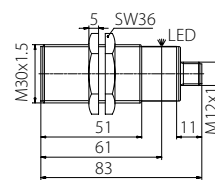
With connector



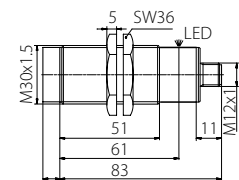
With connector



With connector



With connector



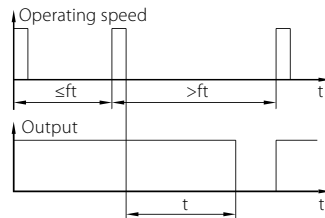
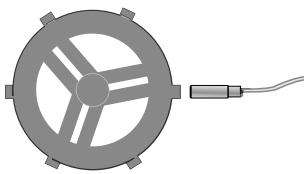
SPECIFICATIONS

Sensor	Flush M18	Non-flush M18	Flush M30	Non-flush M30
	with cable / with connector	with cable / with connector	with cable / with connector	with cable / with connector
Nominal sensing distance S_n	5 mm	8 mm		
Real sensing distance S_r	4 – 6 mm	6 – 10 mm		
Case	M18		M30	
Case material	stainless steel			
Mounting	YES	NO	YES	NO
Switching frequency f_t	0,5 Hz or up on request			
Maximum frequency sensed	200 Hz	100 Hz	200 Hz	100 Hz
Hysteresis S_a	(0,01 – 0,15) x S_n			
Nominal voltage U_n	24 V DC			
Power supply U_c	15 – 30 V DC			
Supply current I_c	< 20 mA			
Output current I_z	< 200 mA			
Shielding indicator	green LED			
Output indicator	yellow LED			
Ambient temperature range T	-25 to 70 °C			
Ingress protection	IP 68 / IP 67, in accordance with EN 60529, as amended			
Connection type	cable PVC 3 x 0,25 mm ² / connector M12			

ORDER NUMBER

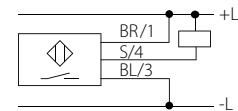
Output		Cable version		Cable version	
NPN	normaly open	PSI DI 186 391	PSI DI 188 391	PSI DI 306 391	PSI DI 308 391
PNP	normaly open	PSI DI 186 393	PSI DI 188 393	PSI DI 306 393	PSI DI 308 393
Output		Connector version		Connector version	
NPN	normaly open	PSI DI 186 491	PSI DI 188 491	PSI DI 306 491	PSI DI 308 491
PNP	normaly open	PSI DI 186 493	PSI DI 188 493	PSI DI 306 493	PSI DI 308 493

OPERATING PRINCIPLE

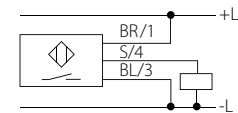


WIRING DIAGRAM

with cable / NPN n.o.



with cable / PNP n.o.



BR - brown / S - black / BL - blue

