

Item number 994090726000001
NEU_NEW

Customer item number t.b.d

PR-SPA-NA-DWG, Version VL

PROVISIONAL

Description		
Designation:	Speed sensors	
variant:	DWG	
Description:	module 3.0	
Signal version:	voltage	
Electrical values		
supply voltage U_b :	8 ... 24	V DC
Current demand without load:	< 100	mA
Insulation resistance:	$\geq 200 \text{ M}\Omega / 500 \text{ VDC}$	
max. switching current:	20	mA
Frequency range:	0-20.000 Hz / true zero-speed	
Output level High-level:	$\geq U(B) - 2.0 \text{ V}$	
Output level Low-level:	$\leq +1.5 \text{ V}$	
Output signal:	2 right angle signals-90° phase shift.-inverse sig	
	Output A +	
	square wave signal	
	Output B +	
	square wave signal-phase shift $90^\circ \pm 30^\circ$ to A+	
	Output A -	
	inverse square wave signal	
	Output B -	
	square wave signal-phase shift $90^\circ \pm 30^\circ$ to A-	
Duty cycle:	0.5 ± 0.2 (for involute toothing)	
Protection against wrong polarity of power	yes	
Short circuit proof:	yes. outputs short circuit proof	
Application of shield on the sensor side:	shield fixed at sensor housing	
Application of shield on the connection side:	shield not fixed at plug	
Sensor head covering:	Asymmetric Sensor head covering $\leq 4 \text{ mm}$	
in the axial direction:	width of gear wheel $\geq 8 \text{ mm}$	
IP protection class:	IP X5	
Mechanical features		
Positioning:	air gap btw. sensor/wheel 0.2 to 1.5 - nom. 0.7	mm
Type of gearing:	involute toothing	
Gear wheel material:	ferromagnetic	
min. width of gear wheel:	8	mm
Sensor housing		
Material:	brass	
Housing version:	Flange housing-cable output $180^\circ / \varnothing$ head 16 mm	
Speed sensors (DWG) - type:	flange-housing. electronics sealed	
Width:	ca. 29	mm
Mounting length:	29	mm
diameter of flange:	26d10	mm
Mounting hole:	26	mm
Fastening holes:	distance = 42 mm. $\varnothing 9 \text{ mm}$	
mech. anti-twist safeguard:	dowel pin $\varnothing 3 \text{ mm}$. length 3 mm	
Temperature		

Measuring range min.:	-40	°C
Measuring range max.:	+95	°C
Ambient temperature min.:	-40	°C
Ambient temperature max.:	+95	°C
Supply line		
Cable protection:	plastic corrugated pipe Ø=15.6mm XPCSFT-12B0	
Supply line fix connected:	yes	
Version:	screened hose line	
Number of lines:	1	Piece
Number of conductor(s):	8	Piece
Material:	Cu	
Refinement:	tinned	
Insulation:	Sabix	
Inner isolation:	foil	
Shielding mesh:	Cu-tinned	
Material Filling element:	glass fiber	
Outer sheath:	Sabix	
Cross section:	0.14	mm²
Outer diameter:	5.5	mm
Color sequence of conductor:	RD/RD/WH/WH/BK/BK/YE/YE	
Color code of outer sheath:	BK	
Length:	2000	mm
Length tolerance:	+25	
Stripped length:	100/60	mm
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Connector		
Type:	without connector	
Connection assignment		
	Output A +	
Braid:	A+ (WH)	
Plug:	Pin A	
.	.	
	Output A - (inverted)	
Braid:	A- (YE)	
Plug:	Pin B	
.	.	
	supply Ub1 (+)	
Braid:	Ub1A (RD)	
Plug:	Pin C	
.	.	
	ground 1 (-)	
Braid:	GND1A (BK)	
Plug:	Pin D	
.	.	
	Output B +	

Braid:	B+ (WH)	
Plug:	Pin E	
.	.	
	Output B - (inverted)	
Braid:	B- (YE)	
Plug:	Pin F	
.	.	
	supply Ub2 (+)	
Braid:	Ub2B (RD)	
Plug:	Pin G	
.	.	
	ground 2 (-)	
Braid:	GND2B (BK)	
Plug:	Pin H	
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	PR-SPA-NA-DWG	
	VL	

Note		
Standards: ESD-protection: Performance A acc. to EN 60947-5-2 6 kV contact discharge 8 kV air discharge Electromagnetic Compatibility [EMV] track vehicles acc. to EN 50121-3-2 Vibration resistance acc. to EN 61373 cat. 3, EN 60068-2-64 Additional: frequency range: 200...2000Hz 0,5 Okt./min , stimulation: 40g, Number of axes: 3, Duration of test: 20 min per axis Shock resistance acc. to EN 61373 cat. 3, EN 60068-2-27 Fire protection acc. to EN 45545-2 ----- This Pulse generator has to be protected against mechanical damage what may cause total loss of function! Do not remove protection cap/transportation protection from the sensor surface until installation! This Pulse generator is for commercial use only. Installation and removal has to be done by trained specialist staff only! All safety instructions and instructions for accident prevention have to be taken into account! ! Use the pulse generator only for intended purpose. !		
Special specification		
Special specification	Additional information: The diameter of the protection hose is 20.7mm	