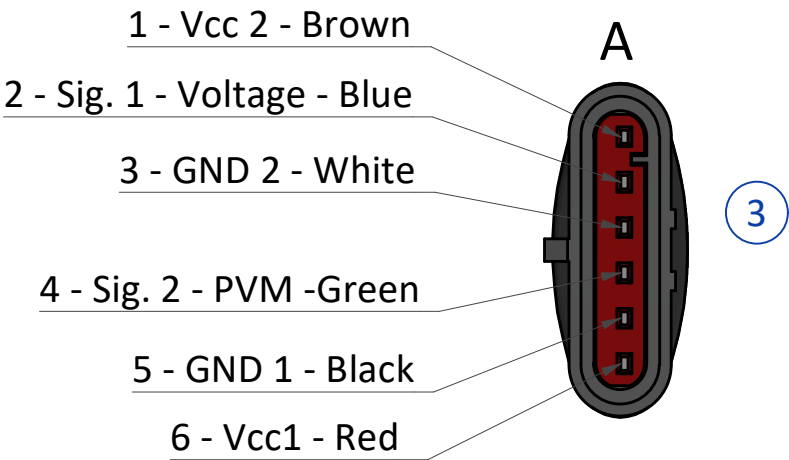
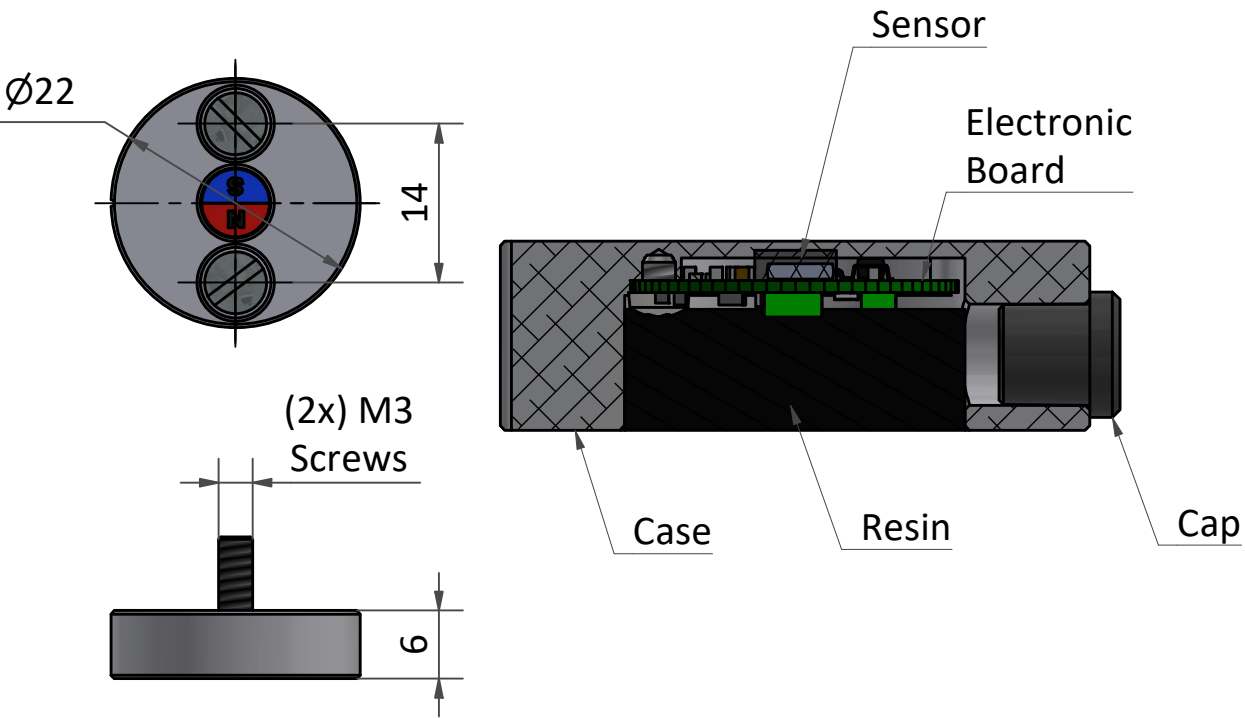
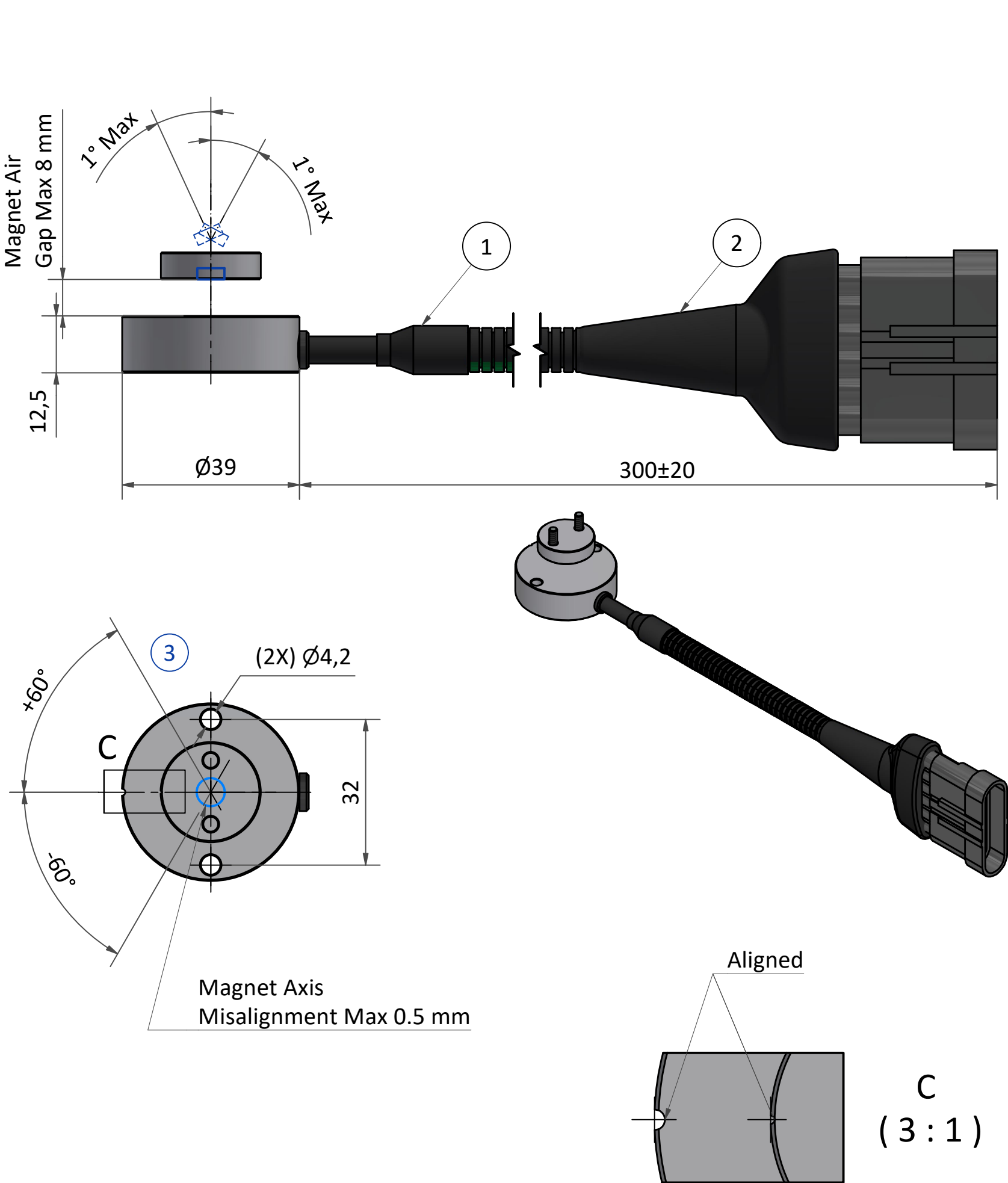


■ Contactless Angular Sensor



Ref.	Description	Operating Temperature °C
1	Cable HT 105°C	-25 / +105
2	6 Pins Tyco Connector	-40 / +125



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Part Number: **AA020510-10**

Description: **Contactless Angular Sens. ±60° 5V Double Sign.(0.5÷4.5 - PWM)**

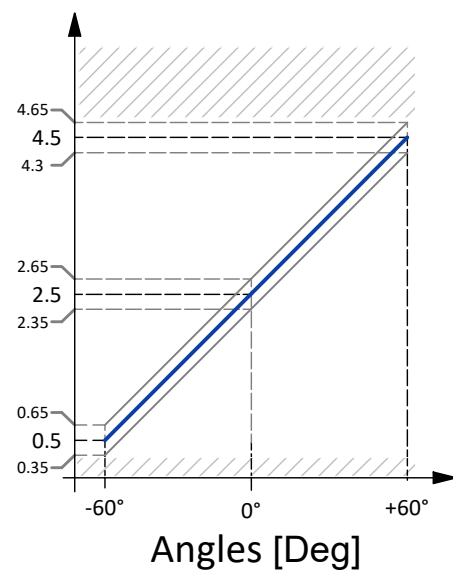
Rev.	Date	Sign.	Review Description	Designed	05/06/2020	Giulia M.	Scale :	1 : 1 (A3 format)
1	16/11/2020	A.DES	Cable Replaced + Tyco 6 pins Corrugated	Checked	16/11/2020	Mauro Canavesi	Dimensions without tolerance indication: ISO 2768 - m	
2	17/02/2021	A.DES	Change Pin Out Color	Approved	16/11/2020	Mauro Canavesi	Units mm	
3	26/03/2025	pb	Angle reference and pin-out colour					



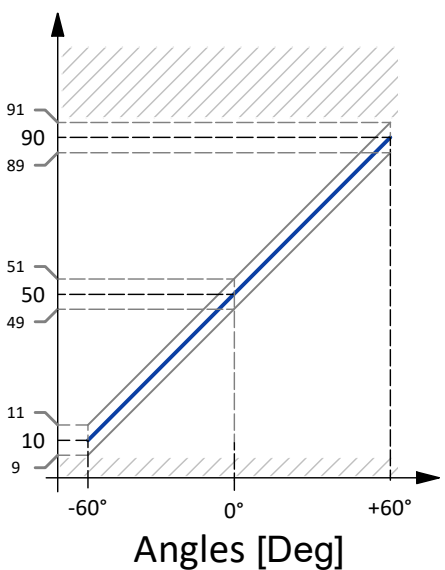
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■ Output Signal

Signal 1 (Voltage)
@Vin = 5V [V]



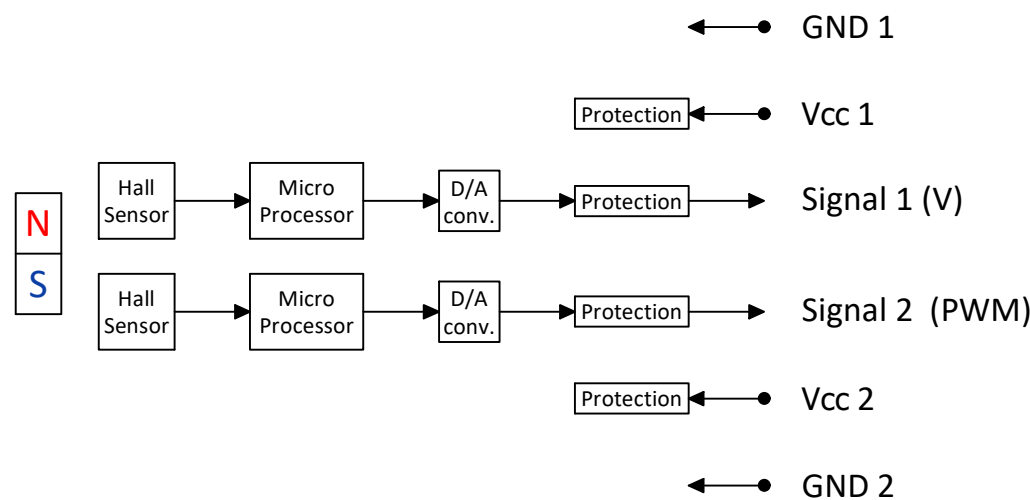
Signal 2 (PWM)
Duty Cycle [%]



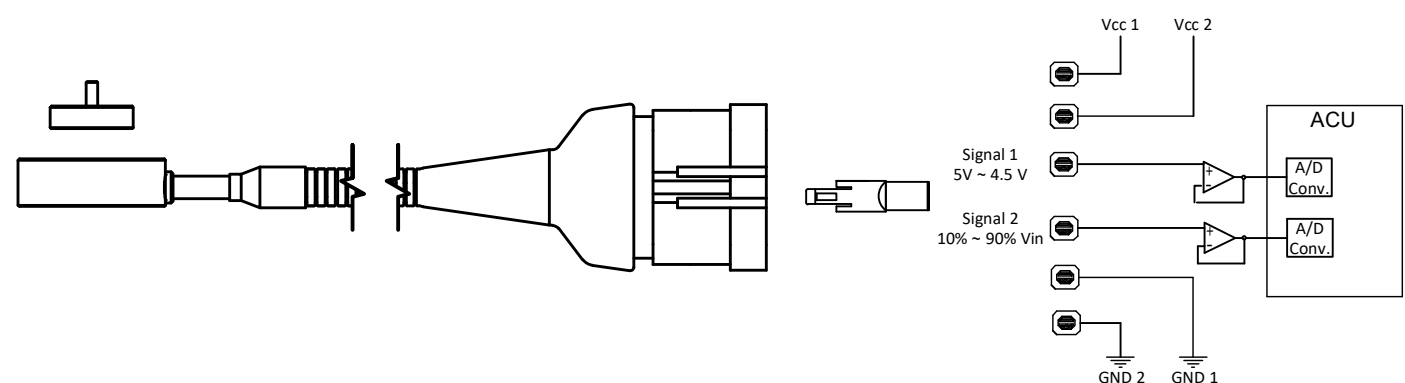
Shortcircuit To Supply

Shortcircuit To GND

■ Functional Scheme



■ Typical Application



■ Technical Specifications

	Specific	Value	Standard Reference
Electrical	Power Supply (Vcc)	Min 4,5V - Max 5,5V	ELEN PDV Rev. 3 - 5.1
	EMC Compatibility	BCI - Class "A" - 100mA ; 1~400 MHz	ISO 11452-4
	Electrostatic Discharge Protection	±8kV Contact ; ±15kV Air Discharge	EN 61000-4-2
	Overload Protection	24 mA For 1h	ELEN PDV Rev. 3 - 5.6
	Overvoltage Protection	+6.5 V For 1h	ELEN PDV Rev. 3 - 5.7
	Output Current	20 mA Max	ELEN PDV Rev. 3 - 5.5
	Dielectric Rigidity	750V@50Hz For 60s	ELEN PDV Rev. 3 - 5.11
	Insulation Resitance	1000 MOhm@500V	ELEN PDV Rev. 3 - 5.10
	Current Sink (No Load)	<= 20mA (For Channel)	ELEN PDV Rev. 3 - 5.2
	Output 1 (With 5V Power Supply) - Voltage Channel	0.5 ~ 4.5V (2.5V @0°)	-
	Output 2 (With 5V Power Supply) - PWM Channel	Duty Cylce = 10 ÷ 90 [%]	-
	Temperature Operating Voltage	5.5V@105°C For 1h	ELEN PDV Rev. 3 - 5.8
	Resolution	12 bit	-
	Linear Error	< ±1%	-
Environmental	Shortcircuit Protection	To Ground For 5' ; To Vcc For 5'	ELEN PDV Rev. 3 - 5.4
	PWM Signal Frequency	1 kHz	-
	Operating Temperature	-40°C ~ +105°C	IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-30; IEC 60068-2-14
	Storage Temperature	-40° ~ +115°C	IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-30; IEC 60068-2-14
	Degree of Protection	IP 67	IEC 60529
	Vibrations Resistance - Sine	(5÷12.87) Hz@dis±15mm ,(12,87÷200) Hz@dis<±15mm@5g, 1 Octave/min , 20 Sweep Cycles	EN 60068-2-6 ISO 15998
Mech.	Vibrations Resistance - Random	f=10Hz@PSD=1.44g2/Hz; f=100Hz@PSD=3.85 g2/Hz, f=1000Hz@PSD=3.85g2/Hz, f=2000Hz@PSD=0.96g2/Hz; 3 Axes - 24h for Axis	IEC 60068-2-64; ENS 0310 Rev.J
	Body Material	Aluminium With Antioxidant Treatment	-
	Shaft Material	Stainless Steel	-