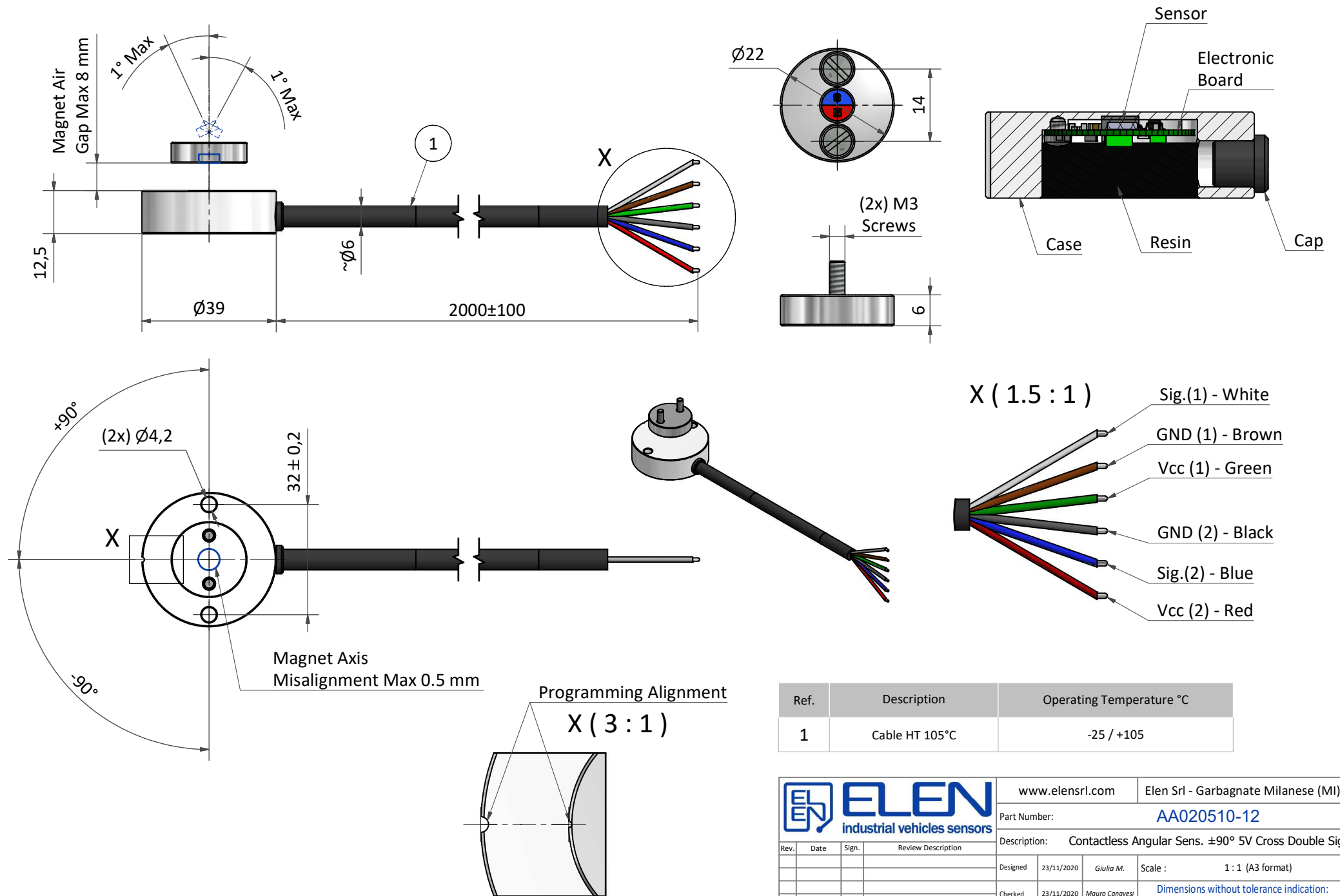


■ Contactless Angular Sensor

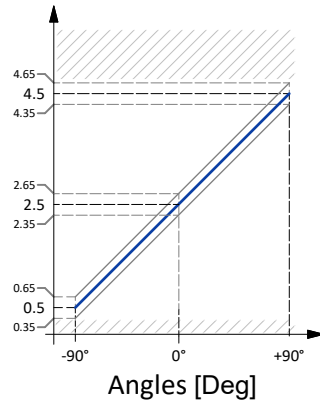


Ref.	Description	Operating Temperature °C
1	Cable HT 105°C	-25 / +105

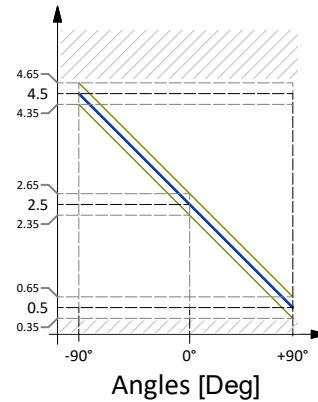
 ELEN industrial vehicles sensors			www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)					
			Part Number:		AA020510-12					
			Description:		Contactless Angular Sens. ±90° 5V Cross Double Sig.					
Rev.	Date	Sign.	Review Description							
					Designed	23/11/2020	Giulia M.	Scale :	1 : 1 (A3 format)	
					Checked	23/11/2020	Mauro Canavesi	Dimensions without tolerance indication: ISO 2768 - m		
					Approved	23/11/2020	Mauro Canavesi		Units mm	Page 1 / 2

Output Signals

Signal 1 (V) @Vin = 5V



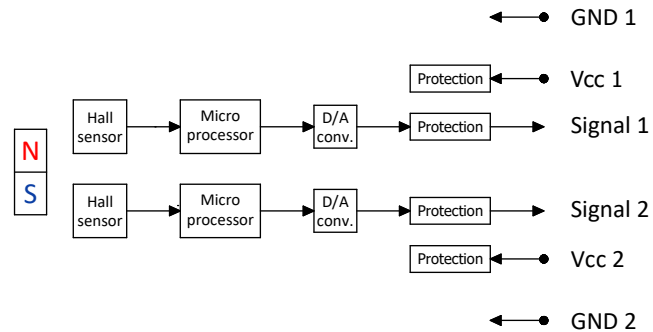
Signal 2 (V) @Vin = 5V



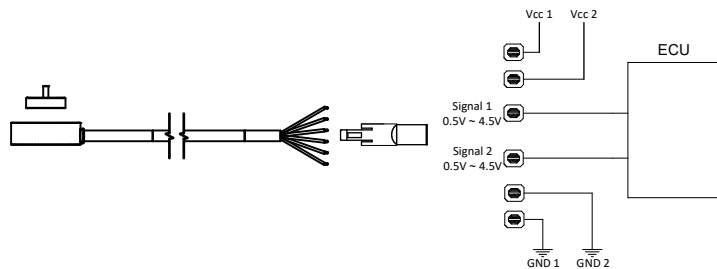
Shortcircuit To Supply

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
	Reverse Polarity Protection	-5.5V For 1h	ELEN PDV Rev. 3 - 5.3
	Overload Protection	1.2 mA For 1h	ELEN PDV Rev. 3 - 5.6
	Overvoltage Protection	6.5V For 1h	ELEN PDV Rev. 3 - 5.7
	Output Current	Max 1 mA (For Channel)	ELEN PDV Rev. 3 - 5.5
	Supply Current (No Load)	15mA Max (For Channel)	ELEN PDV Rev. 3 - 5.2
	Linear Output (1)	0,5V ~ 4,5V (2.5V @0°) Without Ref.Magnet : > 4.7V	-
	Linear Output (2)	4,5V ~ 0,5V (2.5V @0°) Without Ref.Magnet : > 4.7V	-
	Resolution	12 bit	-
	Temperature Operating Voltage	5.5V @ 105°C For 1h	ELEN PDV Rev. 3 - 5.8
	Dielectric Rigidity	750V @ 50Hz For 60s	ELEN PDV Rev. 3 - 5.11
	Insulation Resistance	1000 MΩ @ 500V	ELEN PDV Rev. 3 - 5.10
	Shortcircuit Protection	To GND For 5' ; To Supply For 5'	ELEN PDV Rev. 3 - 5.4
Environmental	Operating Temperature (for Electronic Components)	-40°C ~ +105°C	EN 60068-2-1;EN 60068-2-2; EN 60068-2-30;EN 60068-2-14
	Storage Temperature (for the Assembly)	-40° ~ +105°C	EN 60068-2-1;EN 60068-2-2; EN 60068-2-30;EN 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=1.44 g2/Hz ; f=100Hz@PSD=3.85 g2/Hz ; f=1000Hz@PSD=3.85 g2/Hz ; f=2000Hz@PSD=0.96 g2/Hz ; 3 Axis - 24h For Axis	EN 60068-2-64 ENS 0310 Rev.J
	Body Material	Aluminium With Antioxidant Treatment	-
	Shaft Material	Stainless Steel	-