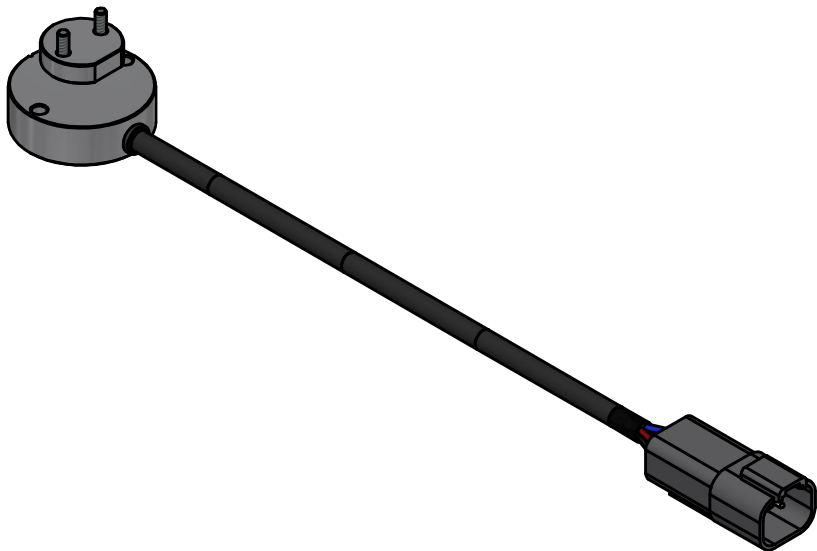
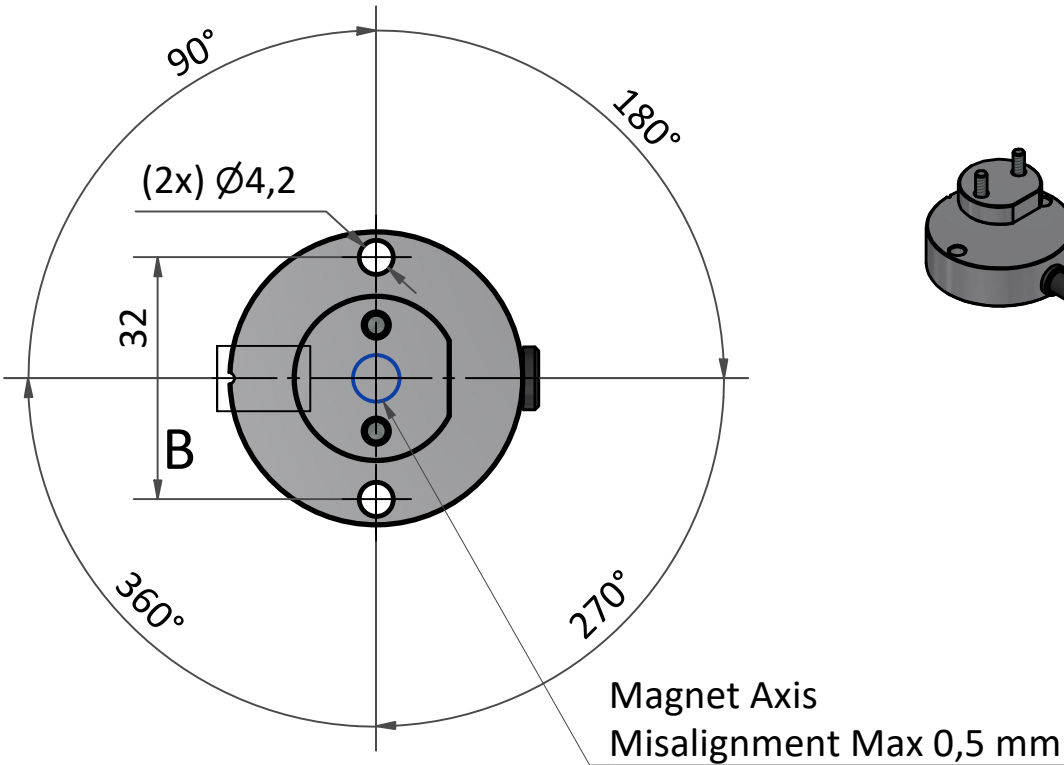
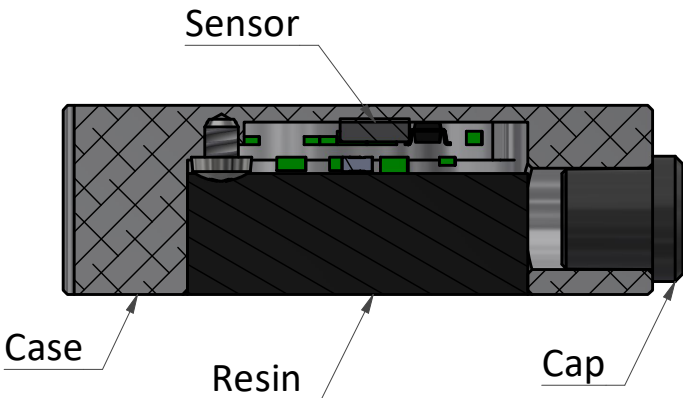
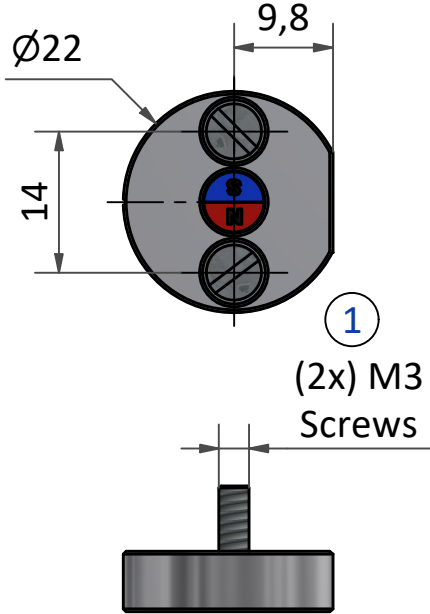
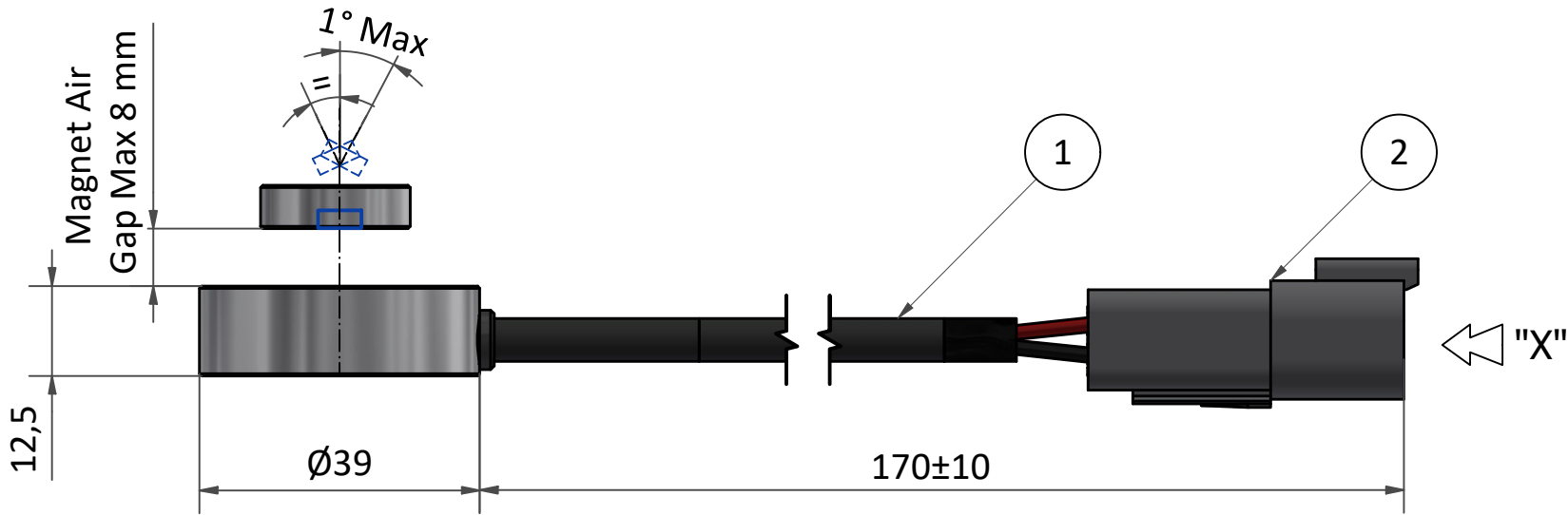
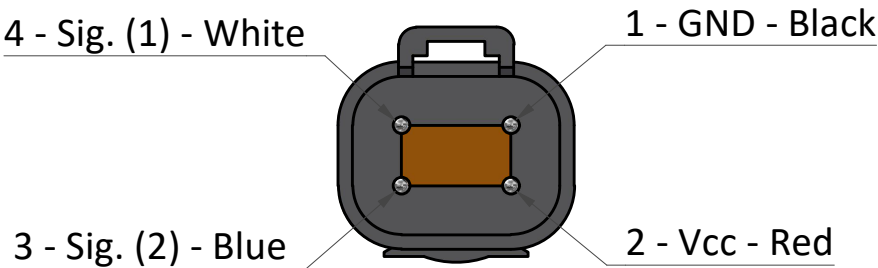


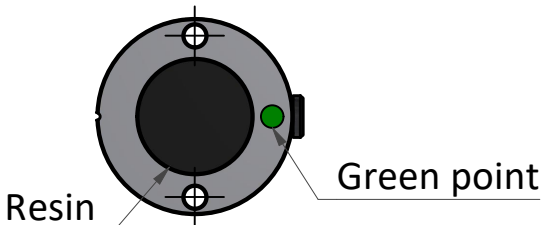
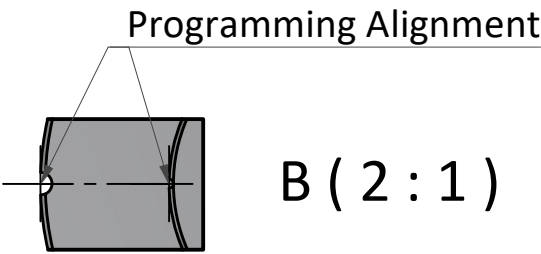
■ Contact Less Angular Sensor



View From "X"



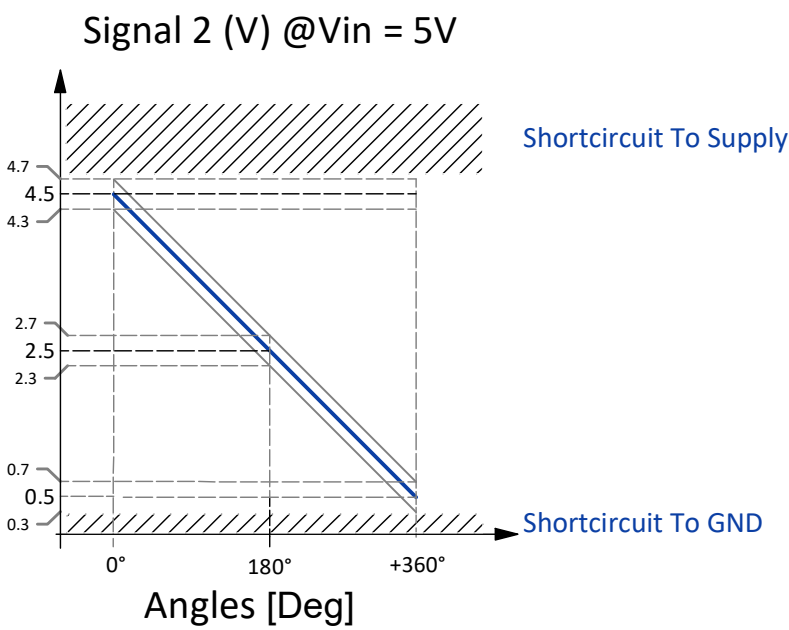
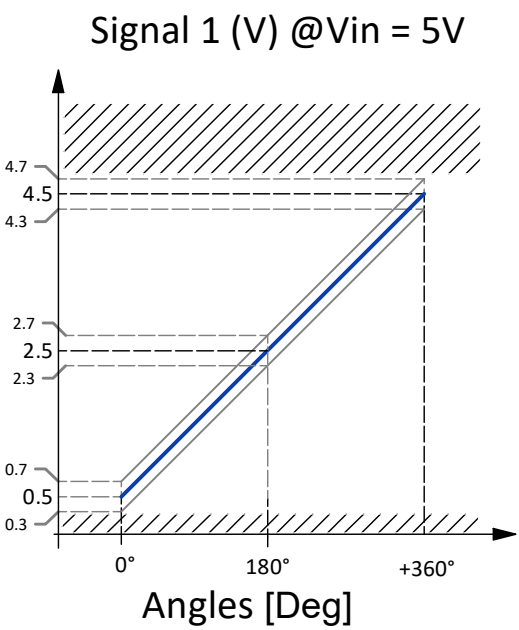
MAGNET CHARACTERISTIC	
DESCRIPTION	VALUE
Magnetization Direction	Radial
Material	Samarium Cobalt MPS 2/17-28
Magnetization Quality	28 Anisotropic
Coating Type	Nichel
Force Of Attraction	~ 0.5 Kg / 4.9 N
Weight	0.6 g
Operating Temperature Max	< 300 °C
Curie Temperature	800 °C
Br Remanence	10300-10800 G / 1.03-1.08 T
bHc Coercive Force	9.5-10 kOe / 756-796 kA/m
iHc Coercive Force	>= 18 kOe / >= 1433 kA/m
Max Energy Product (BxH)	26-28 MGOe / 205-222 kJ/m³



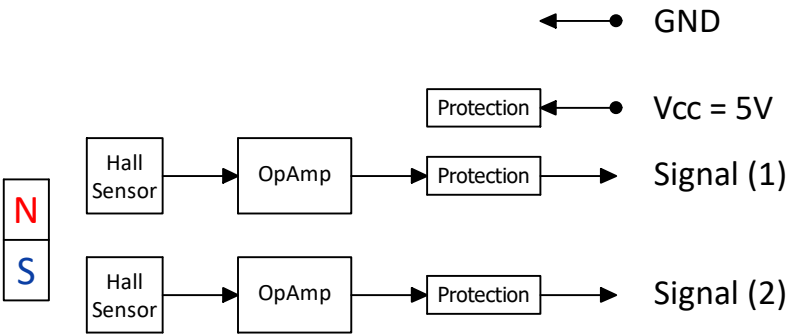
Ref.	Description	Operating temperature
1	Cable HT 105°C	-25 / +105
2	Deutsch 4 Pins Connector	-55 / +125

 ELEN industrial vehicles sensors				www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)			
				Part Number:		AA020510-9			
				Description:		Contactless Angular Sensor 5V Double Sig.Deutsch			
Rev.	Date	Sign.	Review Description	Designed	18/03/2020	Giulia M.	Scale :		1 : 1 (A3 format)
1	03/02/2026	G.M.	Changed Shaft	Checked			Dimensions without tolerance indication: ISO 2768 - m		
				Approved				Units mm	Page 1 / 2

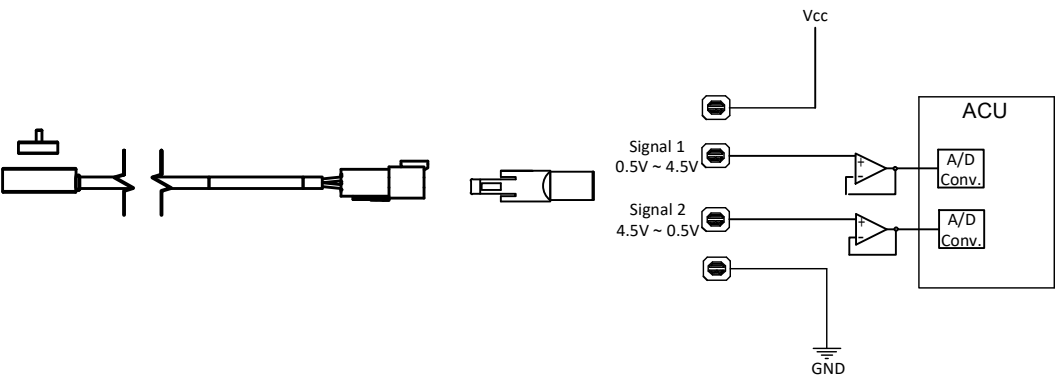
■ Output Signal



■ 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	-12V For 1h	ELEN PDV Rev. 3 - 5.3
	Overload Protection	1.2 mA For 1h	ELEN PDV Rev. 3 - 5.6
	Overvoltage Protection	20V For 1h	ELEN PDV Rev. 3 - 5.7
	Output Current	Max 1 mA (For Channel)	ELEN PDV Rev. 3 - 5.5
	Maximum Load Recommended Output	>4.7 kOhm (For Channel)	-
	Supply Current (No Load)	25mA Max	ELEN PDV Rev. 3 - 5.2
	Linear Output (1)	0,5V ~ 4,5V (2.5V @ 180°) Without Ref.Magnet : > 4.7V	-
	Linear Output (2)	4,5V ~ 0,5V (2.5V @ 180°) Without Ref.Magnet : > 4.7V	-
	Resolution	12 bit	-
	Temperature Operating Voltage	5.5V @ 105°C For 1h	ELEN PDV Rev. 3 - 5.8
	Linearity	< ±1%	-
	Dielectric Rigidity	750V @ 50Hz For 60s	ELEN PDV Rev. 3 - 5.11
Environmental	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
	Operating Temperature	-40°C ~ +105°C	EN 60068-2-1;EN 60068-2-2; EN 60068-2-30;EN 60068-2-14
	Storage Temperature	-40° ~ +115°C	EN 60068-2-1;EN 60068-2-2; EN 60068-2-30;EN 60068-2-14
	Degree of Protection	IP 68	IEC 60529
Mech.	Vibrations Resistance - Sine	(5±12.87)Hz@dis±15mm, (12.87÷200)Hz@dis<±15mm@5g, 1 Octave/min, 20 Sweep Cycles	EN 60068-2-64; ISO 15998
	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 60068-2-6 ENS 0310 Rev.J
	Body Material	Aluminium With Antioxidant Treatment	-
	Ext. Shaft Material	Stainless Steel	-