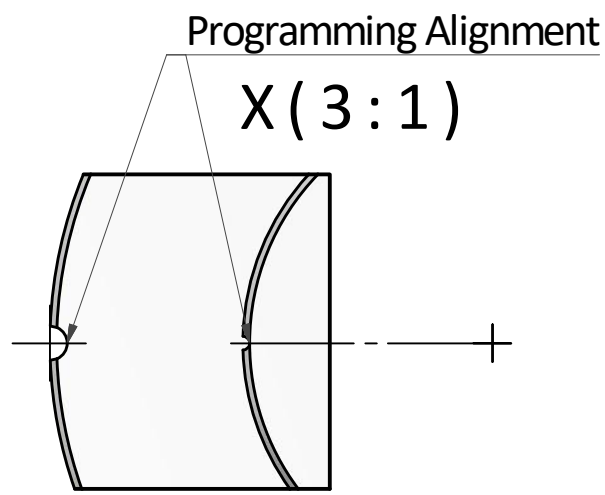
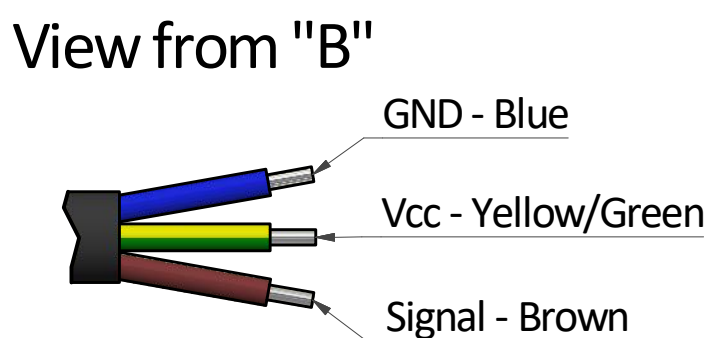
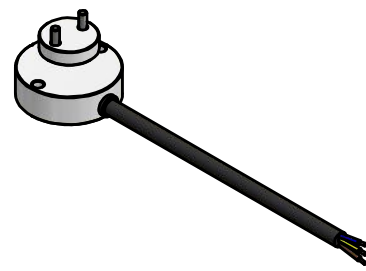
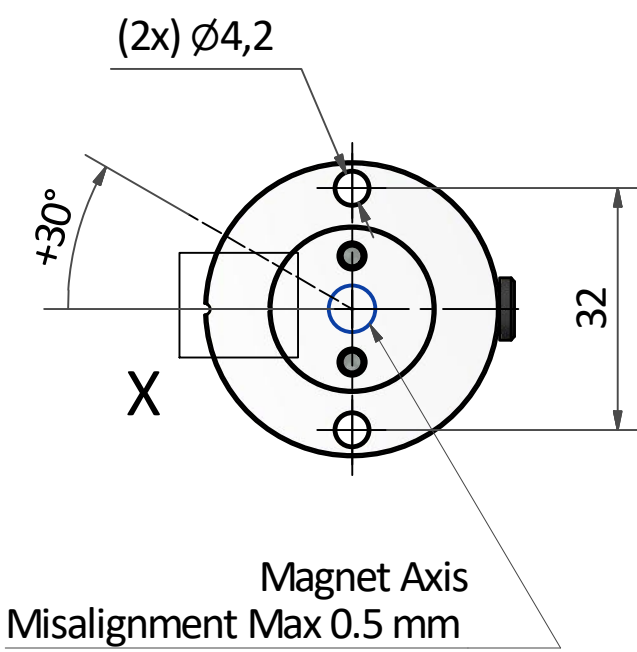
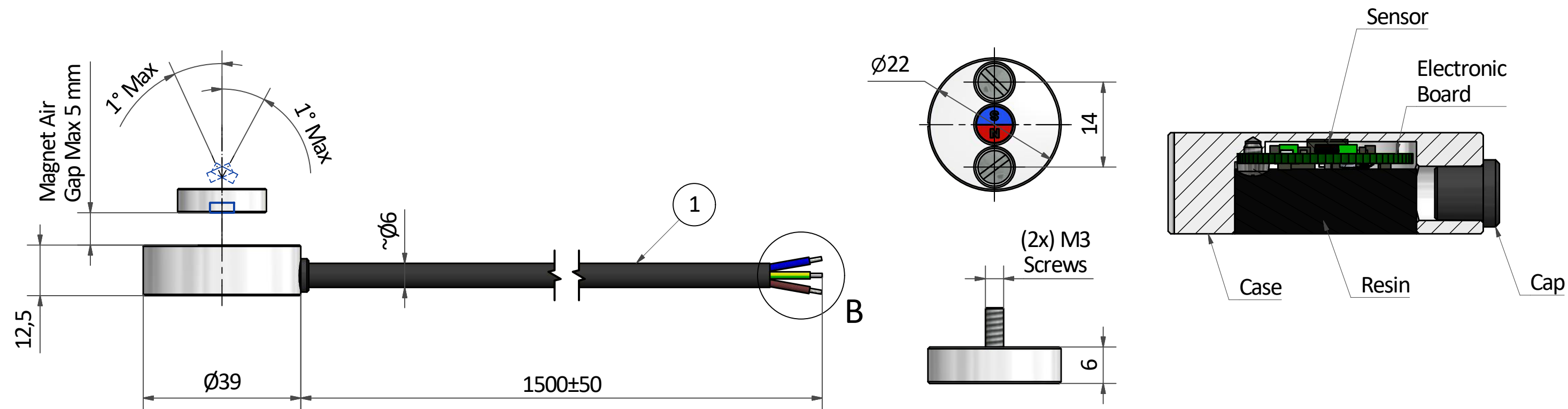


■ Contactless Angular Sensor



Ref.	Description	Operating Temperature
1	Cable HT 105°C	-40 / +105



industrial vehicles sensors

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Part Number: **AA020510-34**

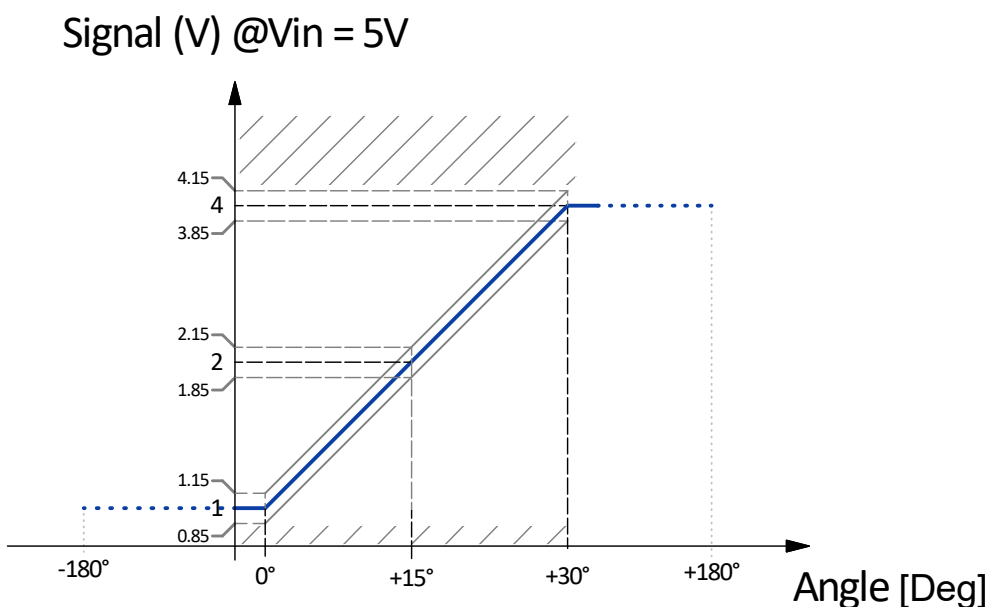
Description: **Contactless Angular Sensor +30° 5V**

Designed	06/06/2024	Giulia M.	Scale :	1 : 1 (A3 format)
Checked	06/06/2024		Dimensions without tolerance indication: ISO 2768 - m	
Approved	06/06/2024			Units mm

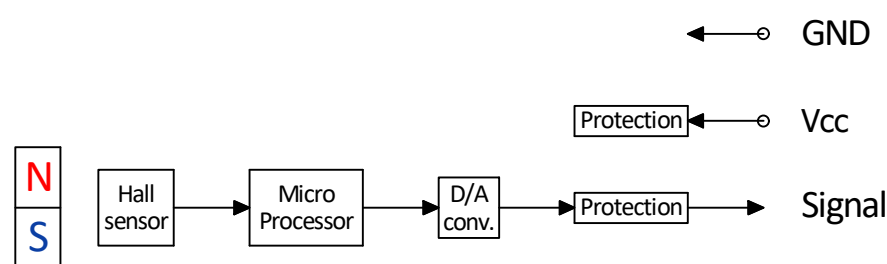
Elen Srl - Garbagnate Milanese (MI)

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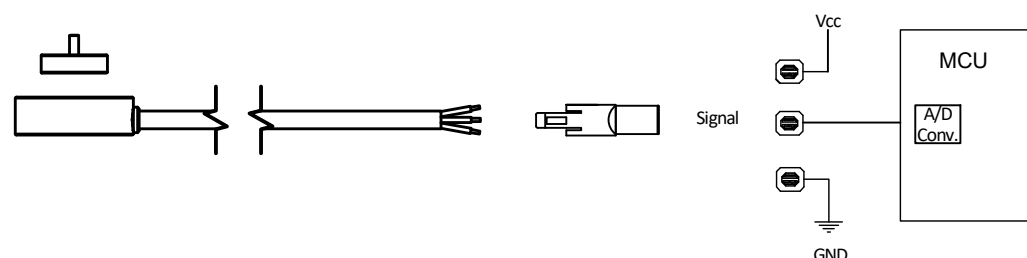
■ Output Signal



■ Functional Scheme



■ Typical Application



■ Technical Specifications

	Specific	Value	Standard Reference
Electrical	Supply voltage (Vcc)	Min 4.5V - Max 5.5V	ELEN PDV Rev. 3 - 5.1
	Supply Current (No Load)	15 mA Max	-
	Output Signal	1V@ 0° ÷ 4V@+30° (2V @15°)	-
	Output Current	20 mA Max	-
	Resolution	< 0.1°	-
	Linearity error	< 1%	-
	Reverse Polarity Protection	-5.5V For 1h	ELEN PDV Rev. 3 - 5.3
	Overload Protection	24mA For 1h	ELEN PDV Rev. 3 - 5.6
	Overvoltage Protection	6.5V For 1h	ELEN PDV Rev. 3 - 5.7
	Output Short Circuit Protection	To Ground For 5' To VDC For 5'	ELEN PDV Rev. 3 - 5.4
	Dielectric Rigidity	750V@50Hz For 60s	ELEN PDV Rev. 3 - 5.11
	Insulation Resistance	1000 MOhm@500V	ELEN PDV Rev. 3 - 5.10
	Temperature Operating Voltage	5.5V@105°C For 1h	ELEN PDV Rev. 3 - 5.8
	ESD Protection	±8kV Contact , ±15 kV Air	EN 61000-4-2
Environmental	EMC Compatibility	BCI - Class "A" - 100mA ; 1~400 MHz	ISO 11452-4
	EMC Compatibility - Magn.Field Imm.	15Hz ÷ 150 kHz	ISO 11452-8 : 2007
	Operating Temperature (for Electronic Components)	-40°C ÷ +105°C	IEC 60068-2-1 ; IEC 60068-2-2 ; IEC 60068-2-30 ;IEC60068-2-14
	Storage Temperature (for the Assembly)	-40°C ÷ +115°C	IEC 60068-2-1 ; IEC 60068-2-2 ; IEC 60068-2-30 ;IEC60068-2-14
	Degree Of Protection	IP 67	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	IEC 60068-2-6 ISO15998
	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	IEC 60068-2-64 ENS0310 Rev.J
	Body Material	Aluminium with Antioxidant Treatment	-
	Shaft Material	Stainless Steel	-