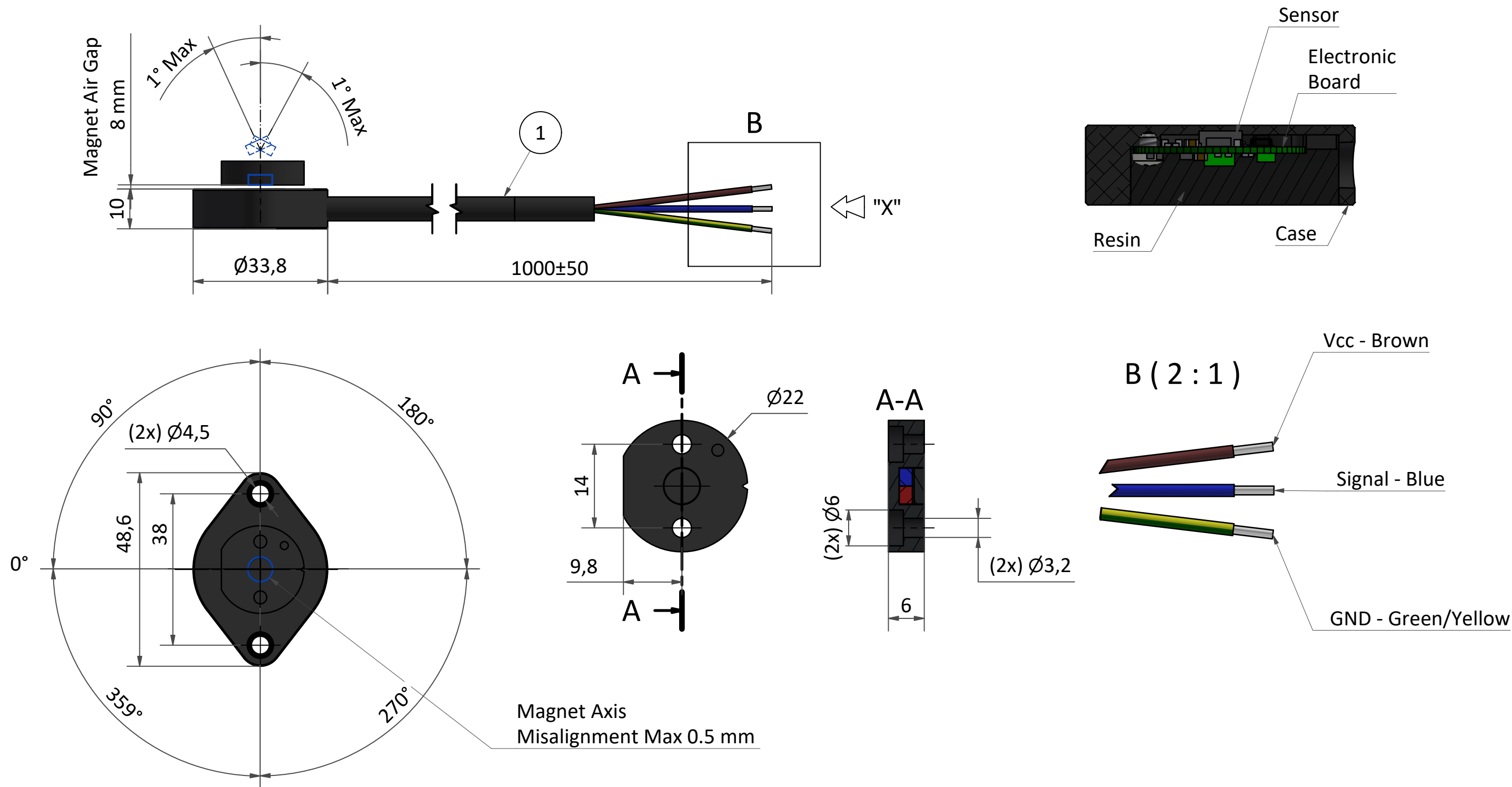
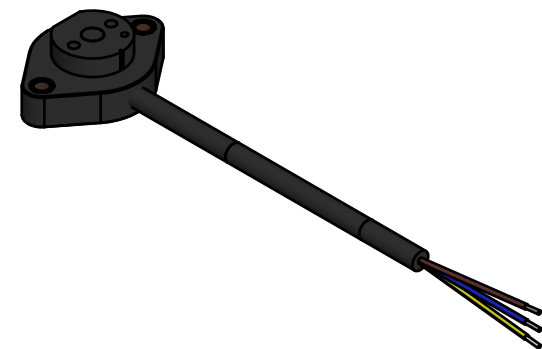


■ Contactless Angular Sensor



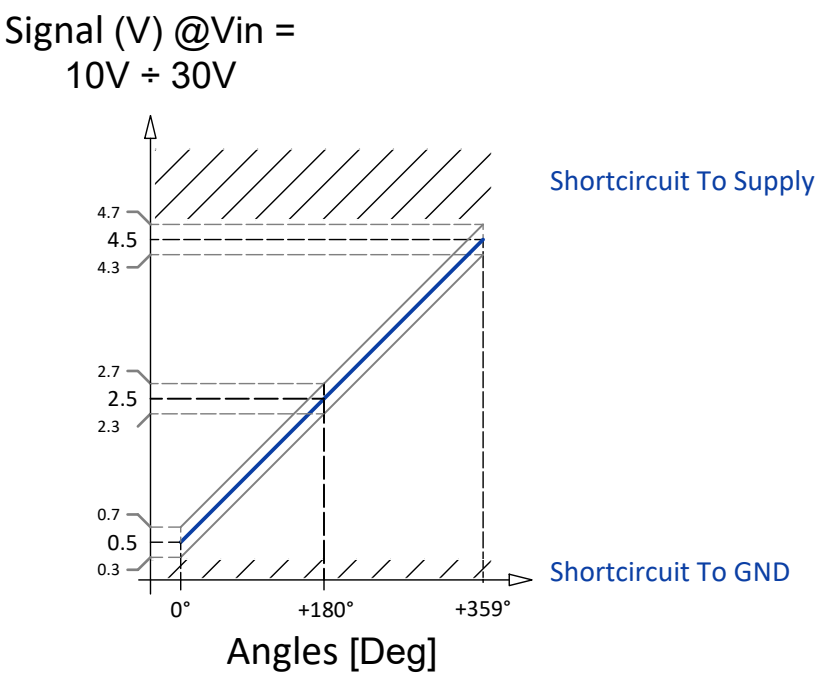
The picture represents the Alignment between Sensor and Magnet Carrier at the 0° position



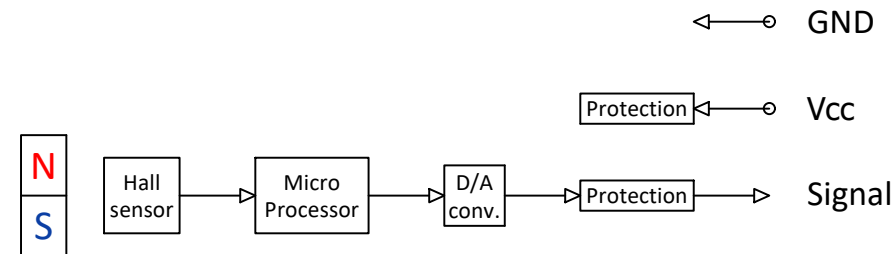
Ref.	Description	Operating Temperature (°C)
1	Cable HT 105°C	-25 / +105

 ELEN industrial vehicles sensors				www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)				
				Part Number:		AA020515-48				
				Description:		Contactless Angular Sens. 360° 24V Single Sig.				
Rev.	Date	Sign.	Review Description	Designed	21/05/2025	Matteo M.	Scale :		1 : 1 (A3 format)	
				Checked	21/05/2025		Dimensions without tolerance indication: ISO 2768 - m			
				Approved	21/05/2025			Units mm	Page 1 / 2	

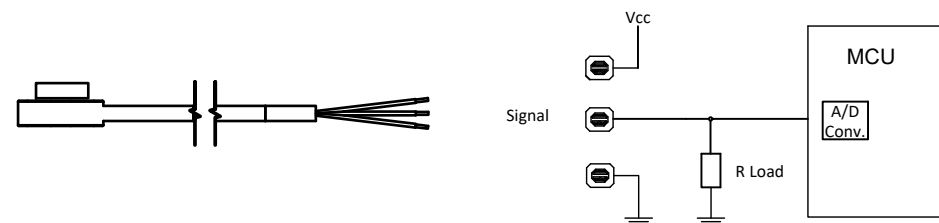
■ Output Signals



■ Functional Scheme



■ Typical Application



■ Technical Specifications

	Specific	Value	Standard Reference
Electrical	Power Supply (Vcc)	10V Min ÷ 30V Max	PDV Rev. 3 - P. 5.1;
	Output Current	20mA Max	PDV Rev. 3 - P. 5.5;
	Max Load Recommended Output	220 Ω	-
	Supply Current (no load)	30mA Max	PDV Rev. 3 - P. 5.2;
	Linear Output	0,5V ÷ 4,5V [±0.2V] (2.5V @ 180°) without ref.magnet >4,7V	-
	Overload Protection	24mA For 1h	PDV Rev. 3 - P. 5.6;
	Overvoltage Protection	36V for 1h	PDV Rev. 3 - P. 5.7;
	Temperature Operating Voltage	30V @ 105° For 1h	PDV Rev. 3 - P. 5.8;
	Reverse Polarity Protection	-30V For 1h (-36 V)	PDV Rev. 3 - P. 5.3;
	Shortcircuit Protection	To Ground For 5' ; To Supply For 5'	PDV Rev. 3 - P. 5.4;
	Insulation Resistance	1000MΩ@500V	PDV Rev. 3 - P. 5.10;
	Dielectric Rigidity	750V@50Hz For 60s	PDV Rev. 3 - P. 5.11;
	ESD Protection	±8kV Contact; ±15kV Air	EN 61000-4-2;
	Transient Voltage Protection	Pulses 1, 2A, 2B , 3A , 3B , 4	ISO 7637-2; ISO 16750-2 (2012)
	Load Dump Transient	Test A (V supply 24V)	ISO 16750-2 (2012)
Environmental	Linearity	<±1%	-
	Resolution	12 bit	-
	Operating Temperature	-40°C ÷ +105°C	IEC 60068-2-14; IEC60068-2-1; IEC60068-2-2; IEC60068-2-30
	Degree Of Protection	IP67	IEC 60529;
	Storage Temperature	-40°C ÷ +115°C	IEC 60068-2-14; IEC60068-2-1; IEC60068-2-2; IEC60068-2-30
	Vibrations Resistance - Random	f=10Hz@PSD=1.44g ² /Hz; f=100Hz@PSD=3.85 g ² /Hz, f=1000Hz@PSD=3.85g ² /Hz, f=2000Hz@PSD=0.96g ² /Hz; 3 Axes - 24h for Axis	IEC 60068-2-64;
	Vibrations Resistance - Sine	(5÷12.87)Hz@displacement ±15mm, (12.87÷200)Hz@dis ≤±15mm@5g, 1Octave/min, 20 Sweep Cycles	IEC 60068-2-6 ENS 0310 Rev. J
	EMC Compatibility - Magnetic Field Immunity	15Hz ÷ 150 kHz	ISO11452-8:2007;
	EMC Compatibility - BCI	BCI Class "A" - 100mA; (1÷400)MHz	ISO11452-4;
Mech.	Body Material	PA6 30GF	-
	Shaft Material	PA6 30GF	-