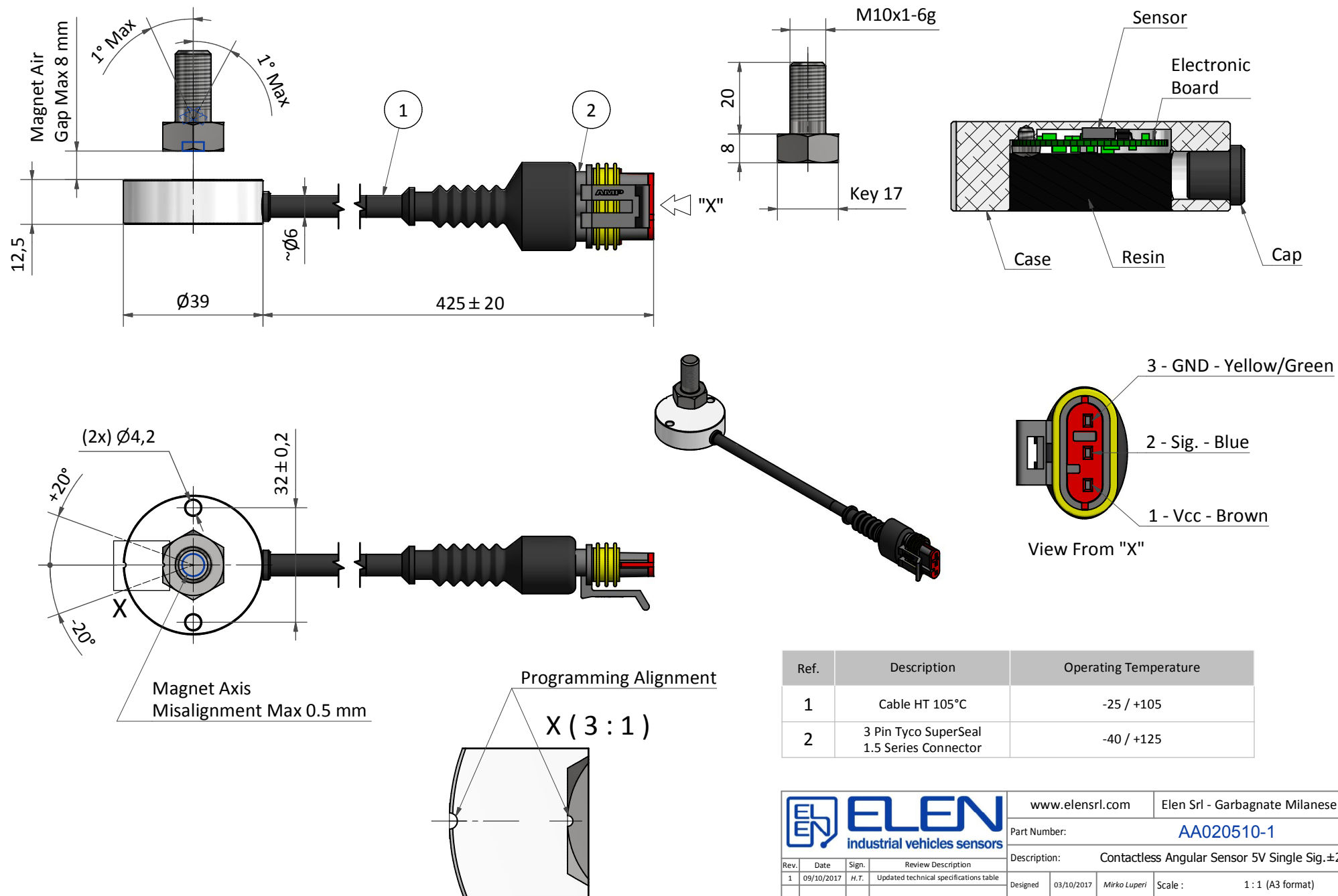


■ Contactless Angular Sensor

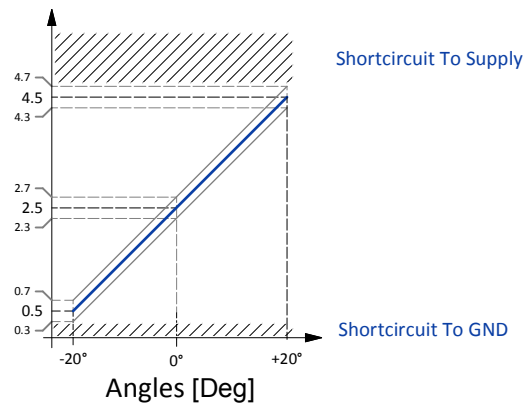


Ref.	Description	Operating Temperature
1	Cable HT 105°C	-25 / +105
2	3 Pin Tyco SuperSeal 1.5 Series Connector	-40 / +125

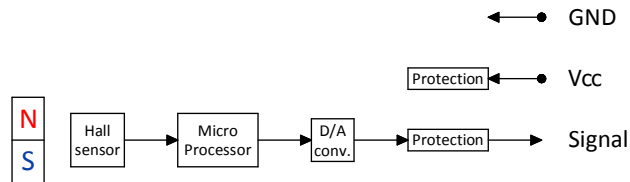
 ELEN industrial vehicles sensors				www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)			
				Part Number:		AA020510-1			
				Description:		Contactless Angular Sensor 5V Single Sig.±20°			
Rev.	Date	Sign.	Review Description						
1	09/10/2017	H.T.	Updated technical specifications table						

■ Output Signal

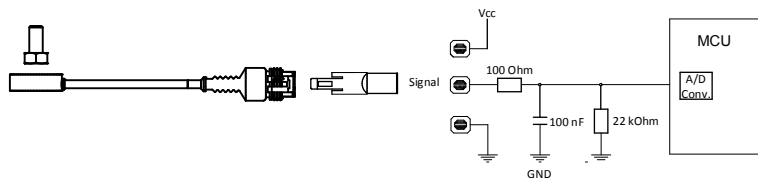
Signal (V) @Vin = 5V



■ Functional Scheme



■ Typical Application



① ■ 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
	EMC Compatibility - Magn.Field Imm.	15Hz ÷ 150 kHz	ISO 11452-8 : 2007
	Reverse Polarity Protection	-5.5V For 1h (-20V For 1h)	ELEN PDV Rev. 3 - 5.3
	Overload Protection	1,2mA For 1h (20mA For 1h)	ELEN PDV Rev. 3 - 5.6
	Overvoltage Protection	6.5V For 1h (20V 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
	Max Load Recommended Output	> 4.7 kOhm	-
	Supply Current (No Load)	15 mA Max	-
	Signal Output	0.5V ÷ 4.5V (2.5V @0) Without Ref.Magnet : >4.7V	-
	Output Current	1 mA Max	-
	Dielectric Rigidity	750V@50Hz For 60s	ELEN PDV Rev. 3 - 5.11
	ESD Protection	±8kV Contact , ±15 kV Air	EN 61000-4-2
	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
Environmental	Resolution	< 0.1°	-
	Linearity	< ±1%	-
	Operating Temperature	-40°C ÷ +105°C	IEC 60068-2-1 ; IEC 60068-2-2 ; IEC 60068-2-30 ; IEC60068-2-14
	Storage Temperature	-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 60068-2-6 ENS0310 Rev.J
	Body Material	Aluminium With Antioxidant Treatment	-
	Ext.Shaft Material	Stainless Steel	-