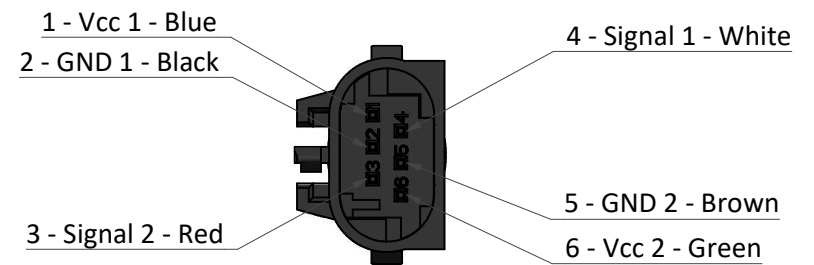
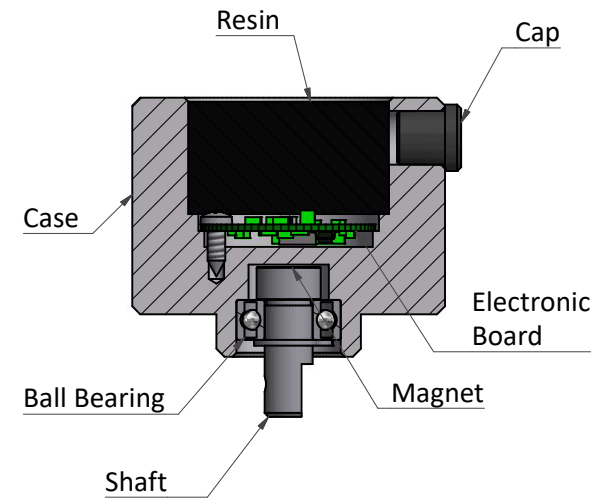
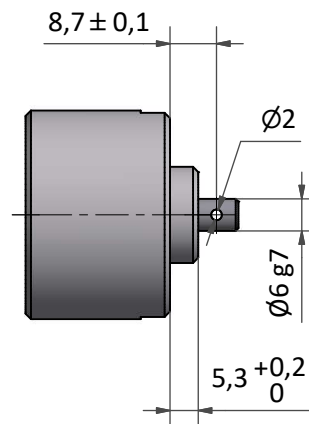
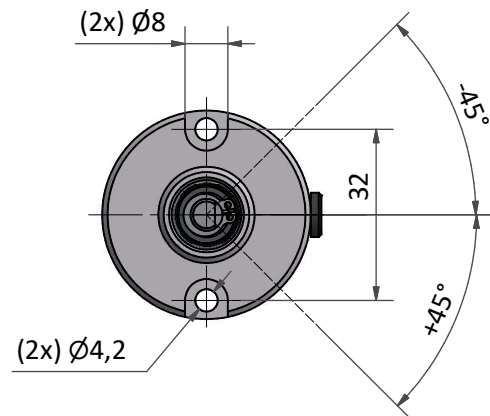
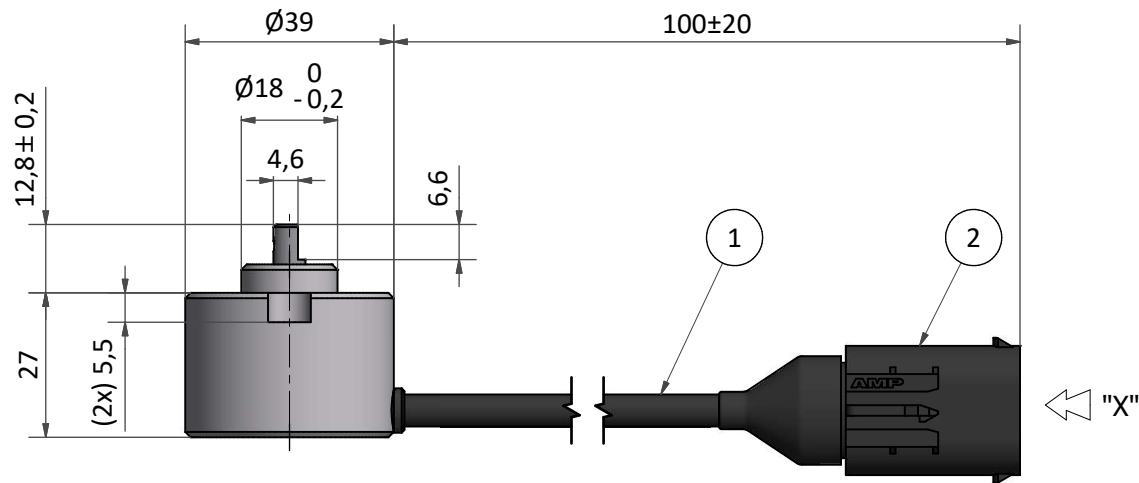


- Angular Sensor



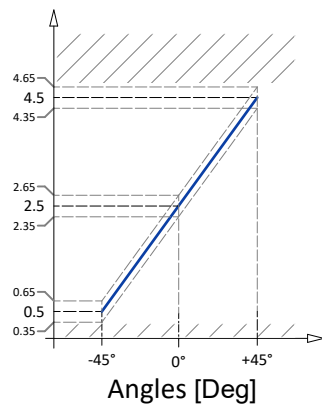
View From "X"

Ref.	Description	Operating temperature
1	Cable HT 105°C	-25 / +105
2	Tyco MQS 1-967587-3 6 Way Connector	-40 / +120

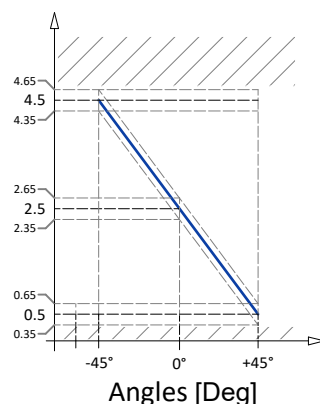
 ELEN industrial vehicles sensors				www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)																																	
<table border="1"> <thead> <tr> <th>Rev.</th> <th>Date</th> <th>Sign.</th> <th>Review Description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				Rev.	Date	Sign.	Review Description																													Part Number:		AA020575-40	
				Rev.	Date	Sign.	Review Description																																
Description:		Angular Sensor 5V $\pm 45^{\circ}$																																					
Designed		28/06/2021		Giulia M.		Scale : 1 : 1 (A3 format)																																	
Checked		28/06/2021		Mauro Canavesi		Dimensions without tolerance indication: ISO 2768 - m																																	
Approved		28/06/2021		Mauro Canavesi		 Units mm	Page 1 / 2																																

Output Signal

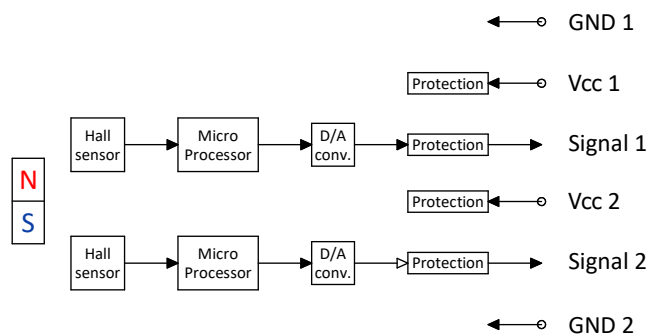
Signal 1 (V) @Vin = 5V



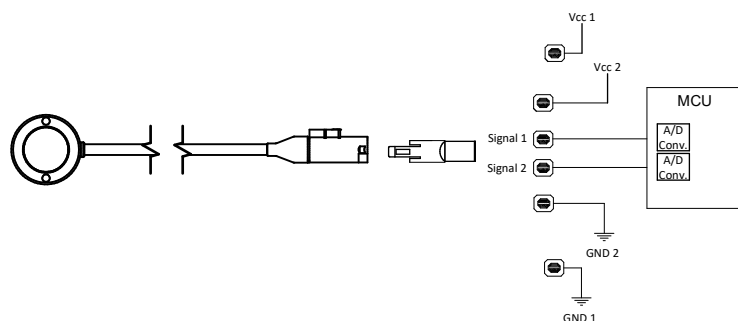
Signal 2 (V) @Vin = 5V



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 For Channel	-
	Output Signal 1	0.5V@-45° ÷ 4.5V@+45° (2.5V @0°)	-
	Output Signal 2	4.5V@-45° ÷ 0.5V@+45° (2.5V @0°)	-
	Output Current	1 mA Max For Channel	-
	Resolution	< 0.1°	-
	Linearity error	< 1%	-
	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
	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
Environmental	ESD Protection	±8kV Contact , ±15 kV Air	EN 61000-4-2
	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)	-25°C ÷ +105°C	IEC 60068-2-1 ; IEC 60068-2-2 ; IEC 60068-2-30 ; IEC60068-2-14
	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	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	-
Mech.			