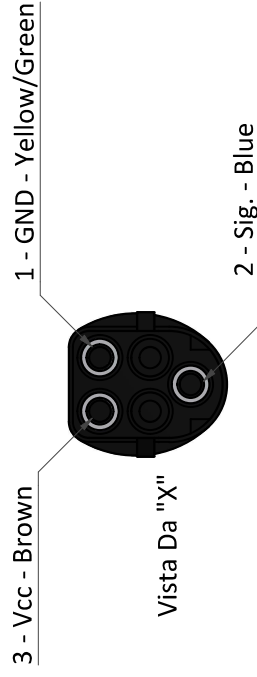
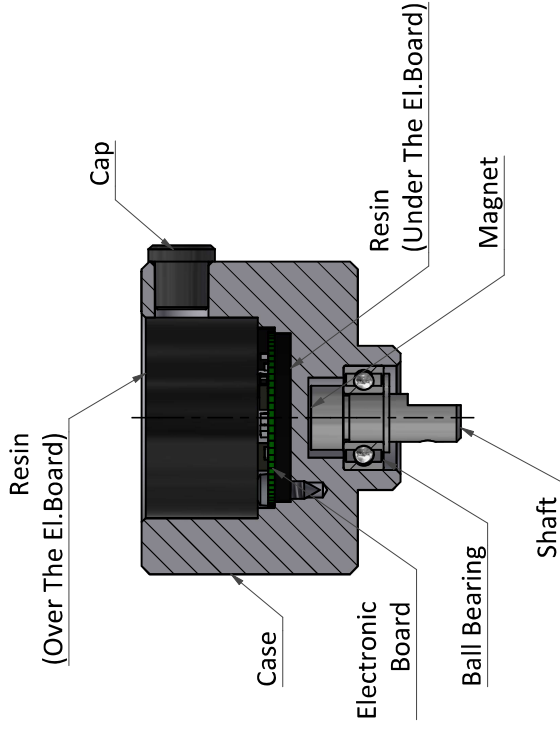
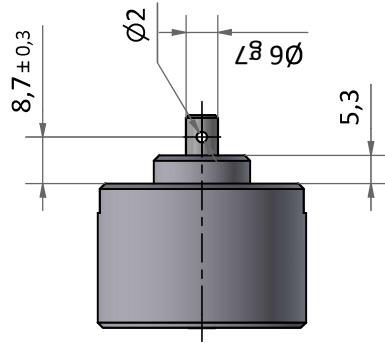
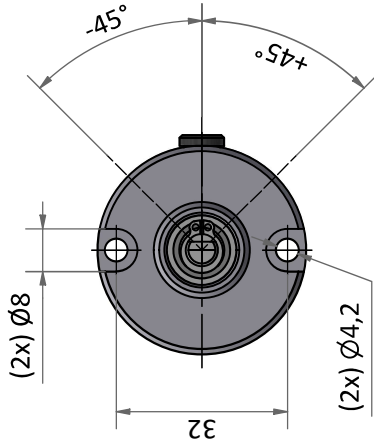
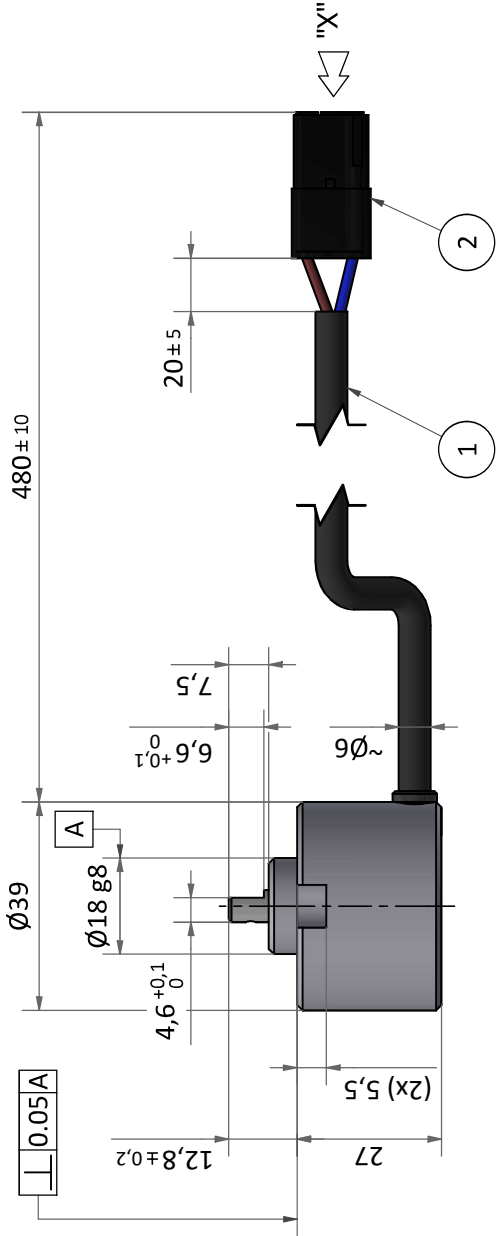


■ Angular Sensor



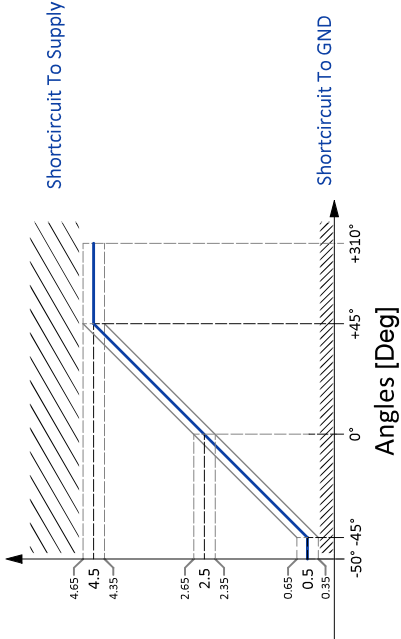
Ref.	Description	Operating Temperature
1	HT 105° Cable 3x0.5mm ²	-25 / +105
2	GHW Coni 1 3 Pins Connector	-30 / +100



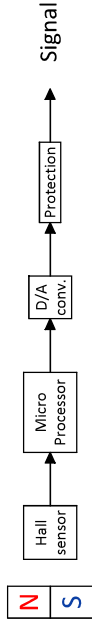
 industrial vehicles sensors				www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)		
Part Number:		AA020534						
Description:		Angular sensor $\pm 45^{\circ}$ 10-30V						
Rev.	Date	Sign.	Review Description	Designed	17/01/2018	Hamidreza T.	Scale :	1 : 1 (A3 format)
1	16/02/2026	G.M.	Updated Tech. Spec.					
				Checked	17/01/2018	Roberto La Capriacca	Dimensions without tolerance indication: ISO 2768 - m	
				Approved	17/01/2018	Roberto La Capriacca	Units	mm
							Page 1 / 2	

■ Output Signal

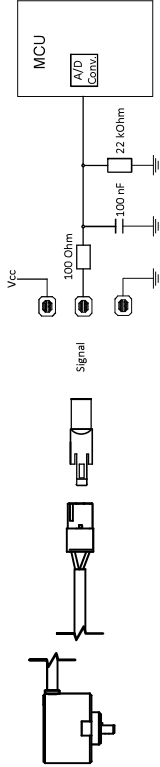
Signal 1 (V) @Vin = 10÷30V



■ Functional Scheme



■ Typical Application



■ Technical Specifications

1

Specific	Value	Standard Reference
Power Supply (Vcc)	10V Min ÷ 30V Max	PDV Rev. 3 - P. 5.1;
Output Current	20mA Max	PDV Rev. 3 - P. 5.5;
Supply Current (no load)	30mA Max	PDV Rev. 3 - P. 5.2;
Linear Output	0.5V ÷ 4.5V [±0.15 V] (2.5V @ 0°)	-
Overload Protection	24mA For 1h (50 mA)	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	1000MQ@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)
Linearity	<±1%	-
Resolution	<0.1°	-
Operating Temperature	-40°C ÷ +105°C	IEC 60068-2-14; IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-30
Storage Temperature	-40°C ÷ +115°C	IEC 60068-2-14; IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-30
Degree Of Protection	IP67 - Sensor Side IP64 - Connector Side	IEC 60529;
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 60068-2-6; ENS 0310 Rev.J
Vibrations Resistance - Sine	(5±12.87)Hz@dis±15mm; (12.87÷200)Hz@dis<15mm@5g, 1 Octave/min, 20 Sweep Cycles	EN 60068-2-6; ISO 15998
EMC Compatibility - Magnetic Field Immunity	15Hz ÷ 150 kHz	ISO11452-8:2007;
EMC Compatibility - BCI	BCI Class "A" - 100mA; (1÷400)MHz	ISO11452-4;
Body Material	Aluminium With Antioxidant Treatment	-
Shaft Material	Stainless Steel	-

Mech.