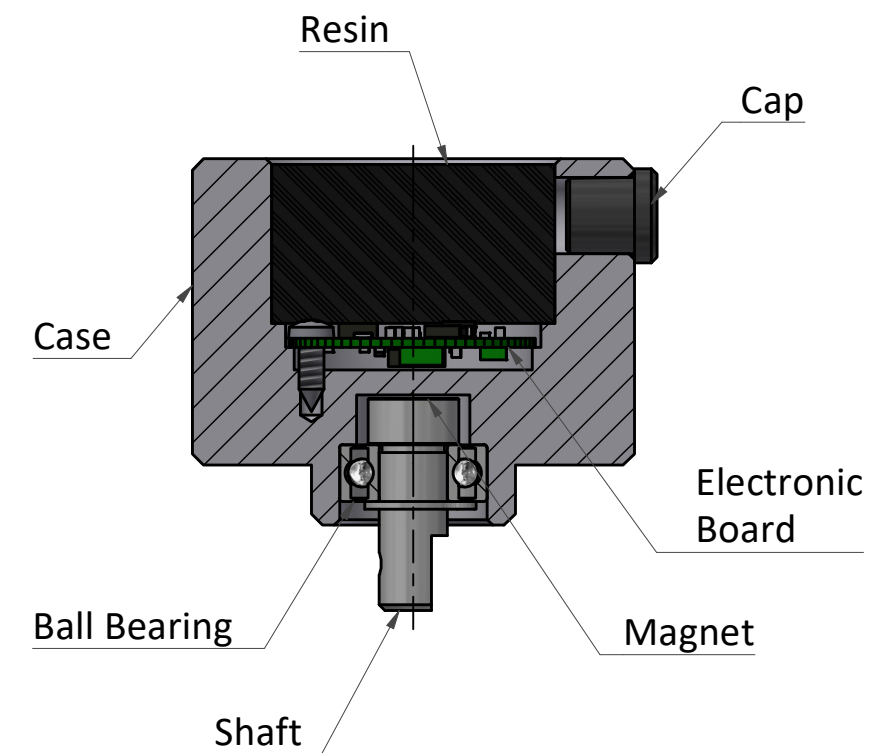
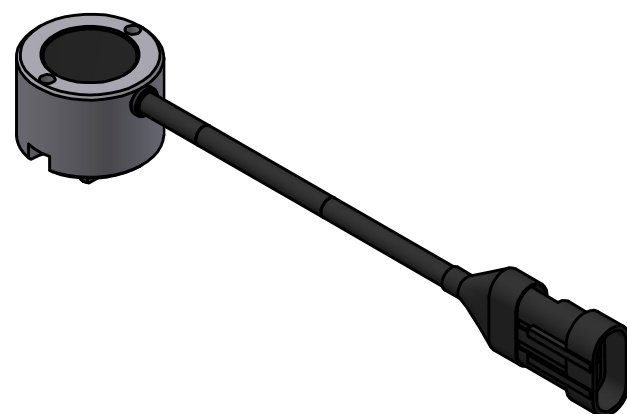
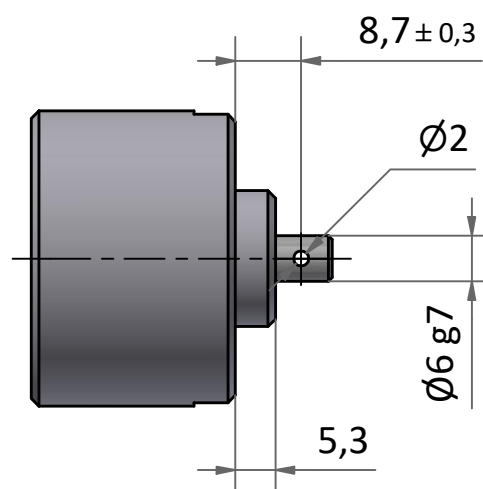
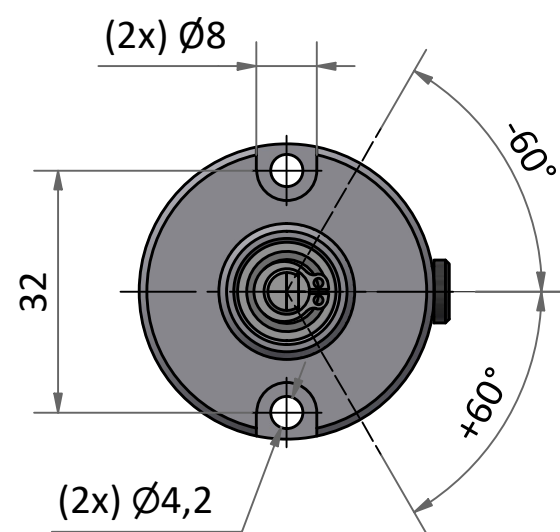
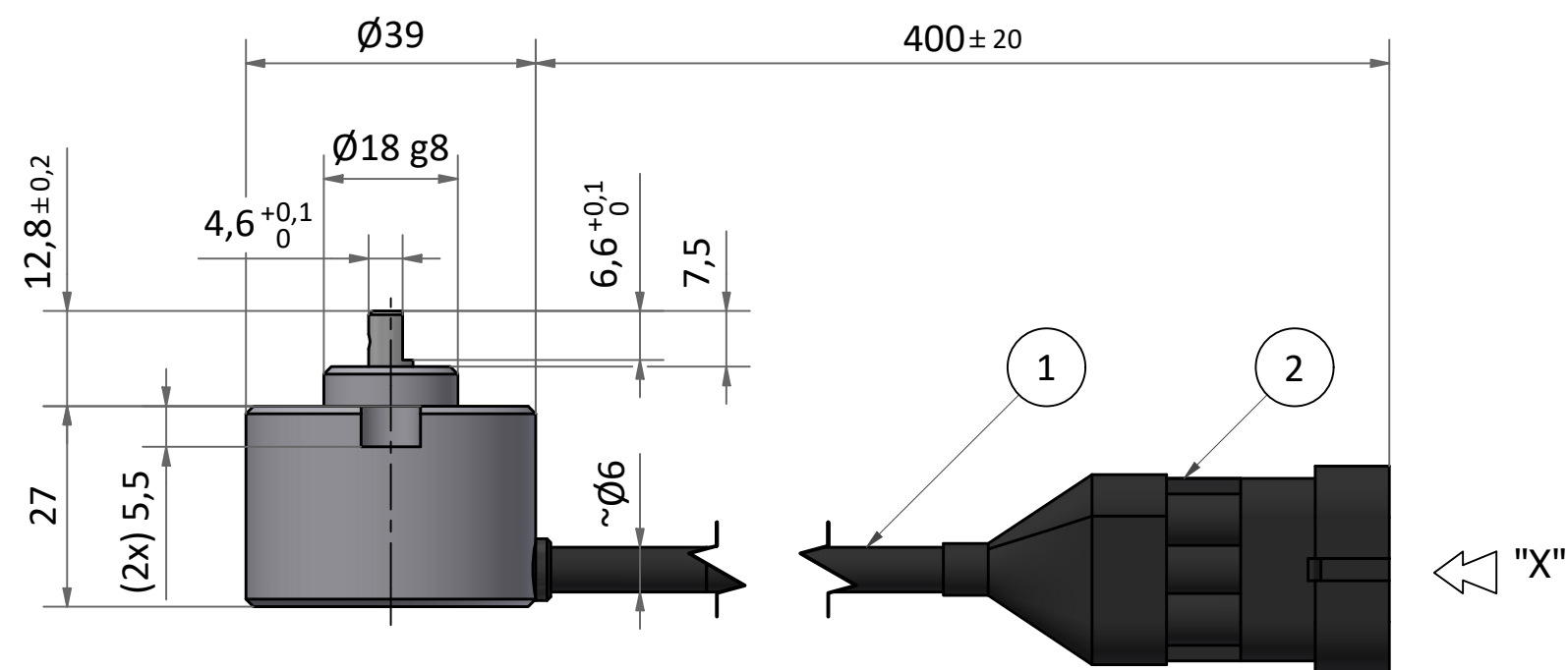
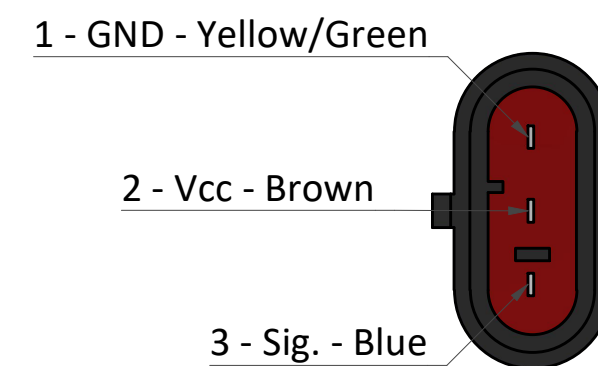


■ Angular Sensor



View From "X"



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



www.elensrl.com Elen Srl - Caronno Pertusella (VA)

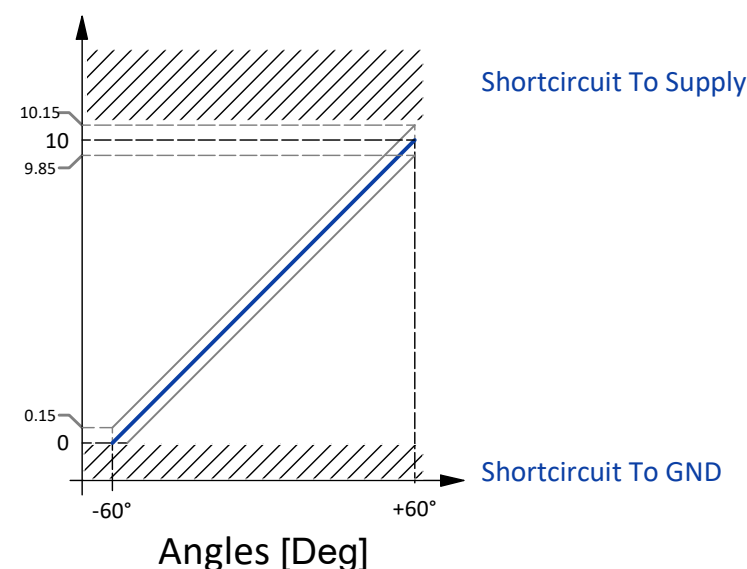
Part Number: AA020570-84

Description: Angular Sensor $\pm 60^\circ$

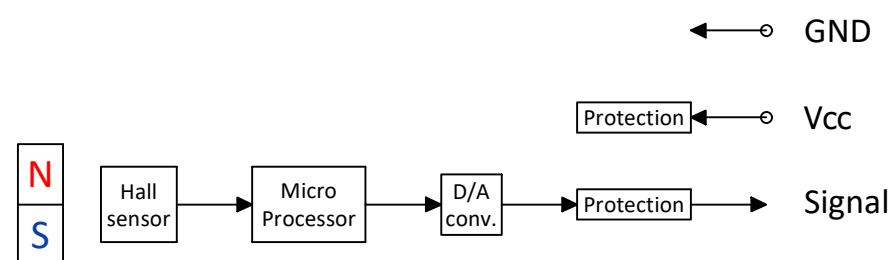
Rev.	Date	Sign.	Review Description	Designed	10/12/2025	Giulia M.	Scale :	1 : 1 (A3 format)
				Checked	10/12/2025		Dimensions without tolerance indication: ISO 2768 - m	
				Approved	10/12/2025		Units mm	Page 1 / 2

■ Output Signal

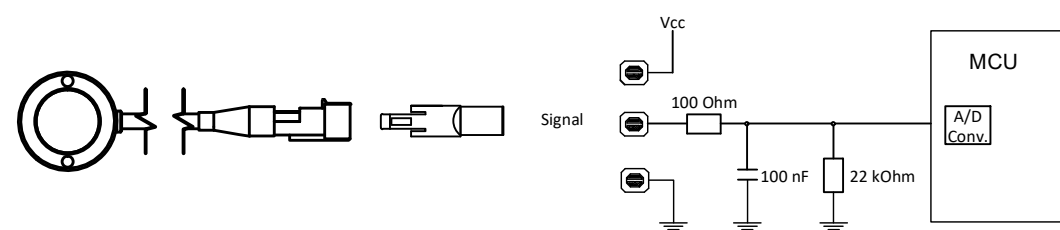
Signal (V) @Vin =
10V ÷ 30V



■ 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;
	Supply Current (no load)	30mA Max	PDV Rev. 3 - P. 5.2;
	Linear Output	0V ÷ 10V	-
	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	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 , 5B	ISO 7637-2
	Linearity	<±1%	-
	Resolution	<0.1°	-
Environmental	Operating Temperature (for Electronic Components)	-40°C ÷ +105°C	IEC 60068-2-14;IEC60068-2-1; IEC60068-2-2;
	Storage Temperature (for the Assembly)	-25°C ÷ +105°C	IEC 60068-2-14;IEC60068-2-1; IEC60068-2-2;
	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;
	Degree Of Protection	IP67	IEC 60529;
	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;ISO 15998;
	EMC Compatibility - Magnetic Field Immunity	15Hz ÷ 150 kHz	ISO11452-8:2007;
Mech.	EMC Compatibility - BCI	BCI Class "A" - 100mA; (1÷400)MHz	ISO11452-4;
	Body Material	Aluminium With Antioxidant Treatment	-
	Shaft Material	Stainless Steel	-