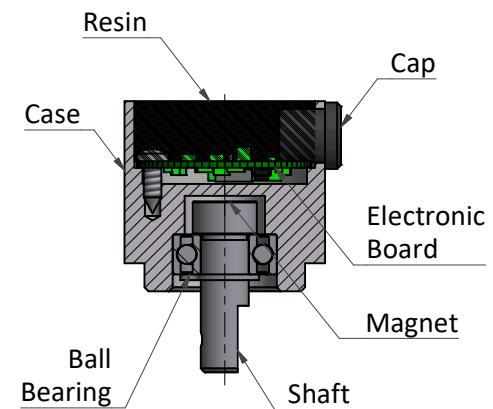
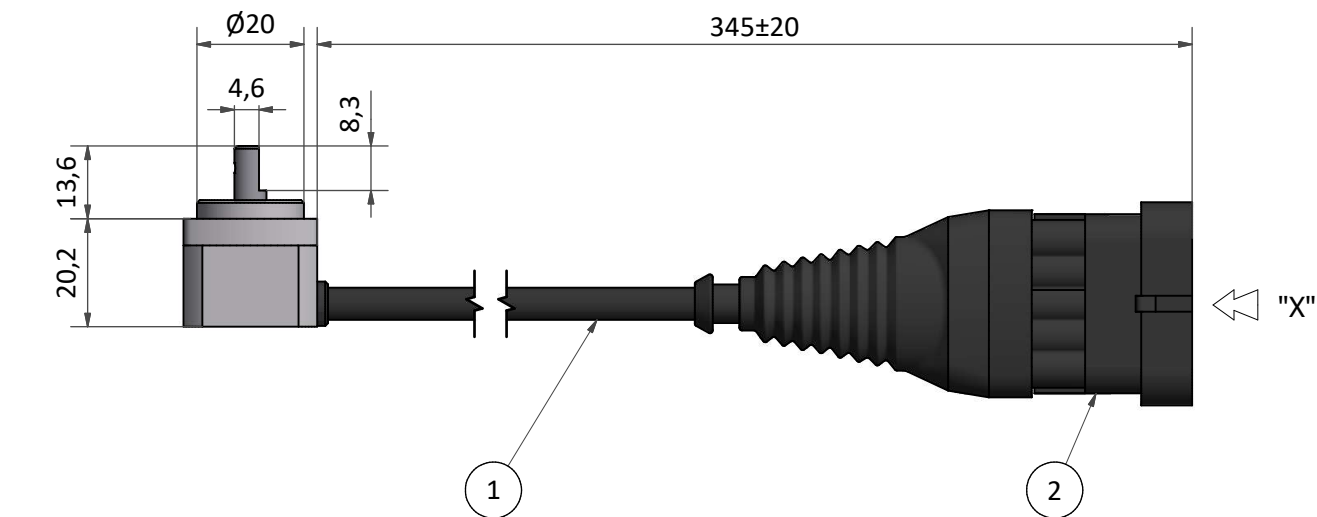
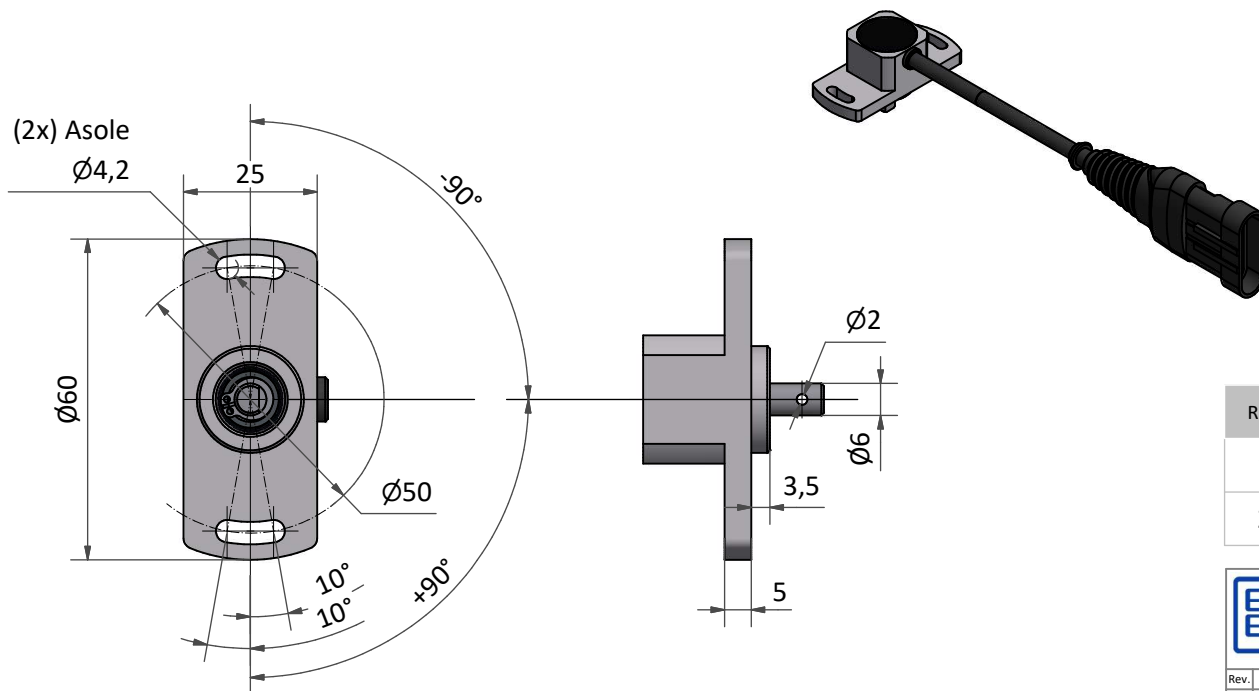


- Angular Sensor



View From "X"



- 1 - Vcc - Brown

- 2 - Sig. - Green

- 3 - GND - White

- 4 - IVS (1) - Black

- 5 - IVS (2) - Blue

Ref.	Description	Operating temperature
1	Cable HT 105°C	-25 / +105
2	5 Pins Tyco SuperSeal 1.5 Series Connector	-40 / +125



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Elen Srl - Garbagnate Milanese (MI)

Part Number:

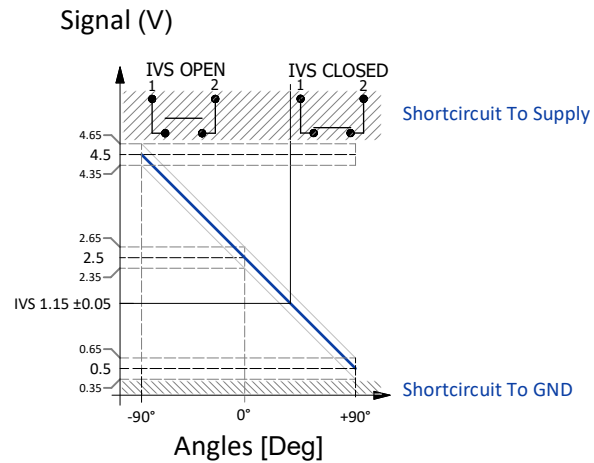
AA375410

Description:

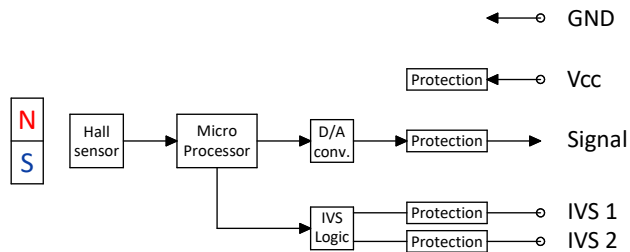
Angular Sensor $\pm 90^\circ$ 10-30V with IVS

Rev.	Date	Sign.	Review Description	Description: Angular Sensor ±90° 10-30V with IVS				
				Designed	14/11/2019	Giulia M.	Scale : 1 : 1 (A3 format)	
				Checked	14/11/2019	Roberto La Caprucchia	Dimensions without tolerance indication: ISO 2768 - m	
				Approved	14/11/2019	Roberto La Caprucchia		Units mm
						Page 1 / 2		

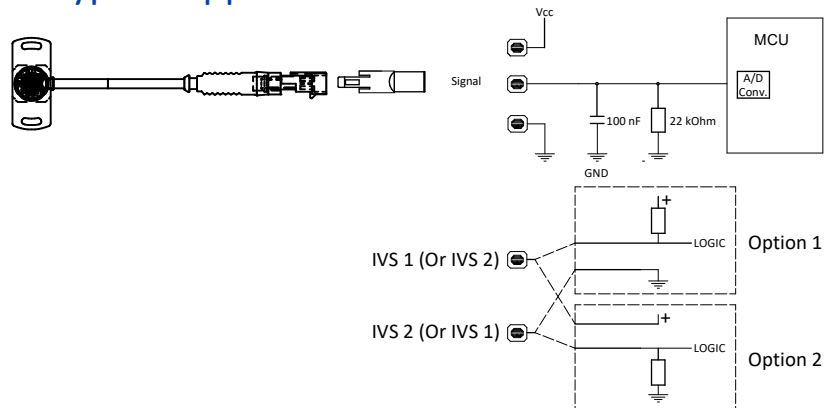
Output Signal



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	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;
	Independent IVS Circuit	Optoisolated, Open @ Vout < 1.15V; Closed @ Vout > 1.15V; 120mA Max (Peak AC/DC) @ 350V Max (Peak AC/DC)	PDV Rev. 3 - P. 5.9;
	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; 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;
Mech.	Body Material	Aluminium With Antioxidant Treatment	-
	Shaft Material	Stainless Steel	-