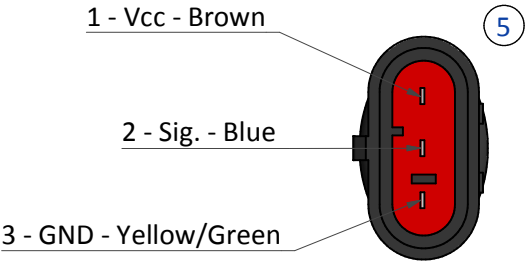
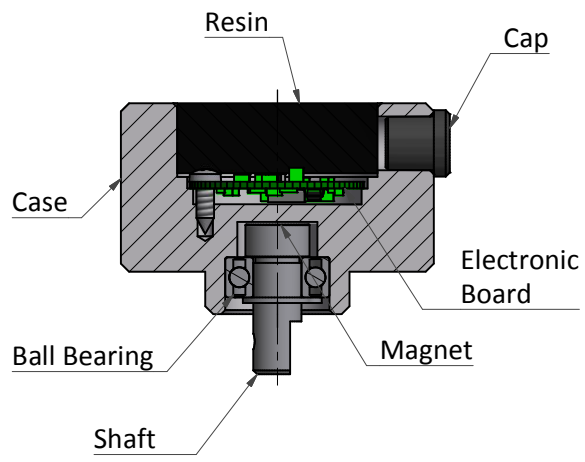
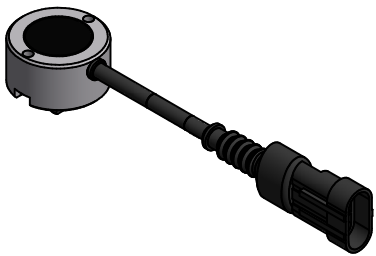
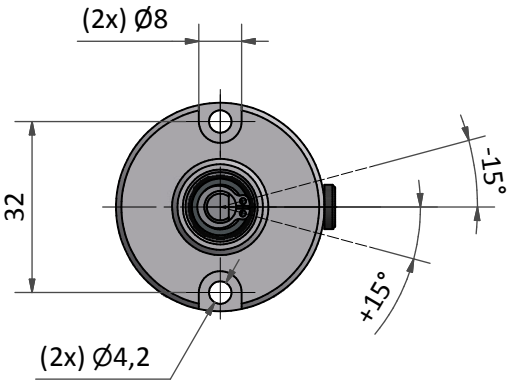
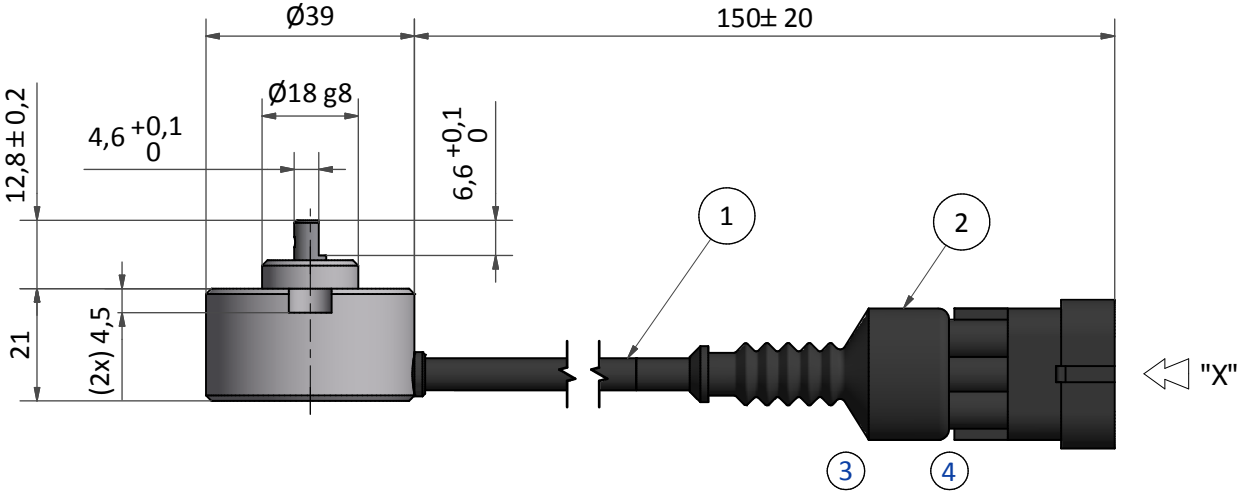


■ Angular Sensor



View From "X"

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



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Part Number: AA020502-15

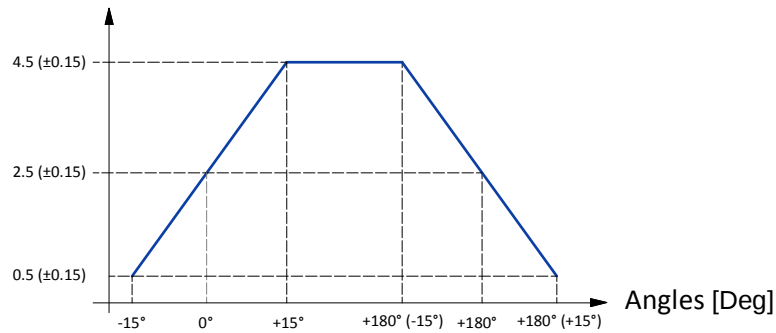
Description: Angular Sensor ±15° 5V H=21

Rev.	Date	Sign.	Review Description
1	11/11/2015	Hamid	Table Updated
2	09/06/2017	Luperi	Updated Electrical Charact.
3	27/11/2020	A.Des	Cable Updated
4	09/12/2020	A.Des	Cable Updated
5	11/02/2021		Updated Pin Color

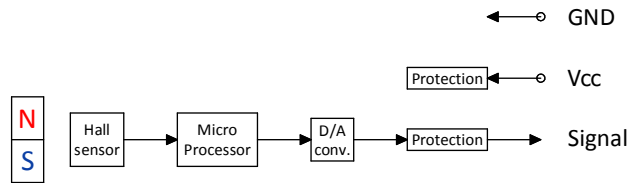
Designed	15/07/2015	Fabio S.	Scale :	1 : 1 (A3 format)
Checked	27/11/2020	Mauro Canavesi	Dimensions without tolerance indication: ISO 2768 - m	
Approved	27/11/2020	Mauro Canavesi	Units mm	Page 1 / 2

■ Output Signal

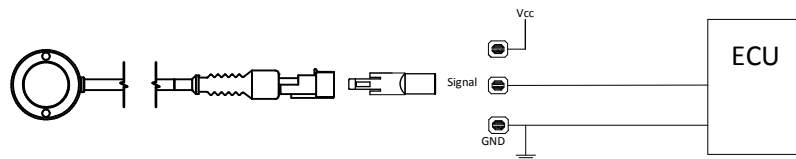
Signal (V) @Vin = 5V



■ Functional Scheme



■ Typical Application



■ Technical Specifications ①②

	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	>5 kOhm	-
	Supply Current (No Load)	15 mA Max	-
	Linear Output	0.5V ÷ 4.5V (2.5V @0)	-
	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 - 5.7
Environmental	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
	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
Mech.	Body Material	Aluminium With Antioxidant Treatment	-
	Shaft Material	Stainless Steel	-