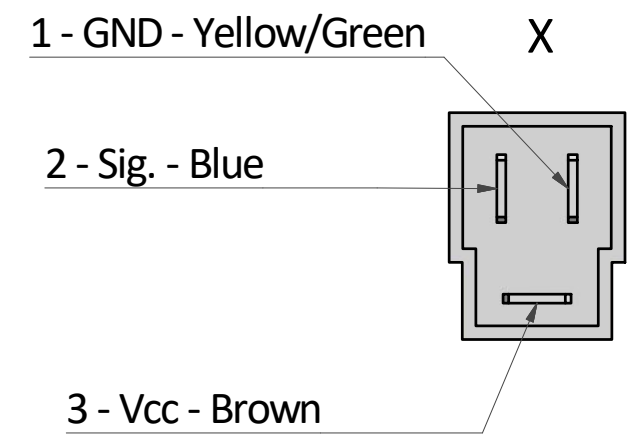
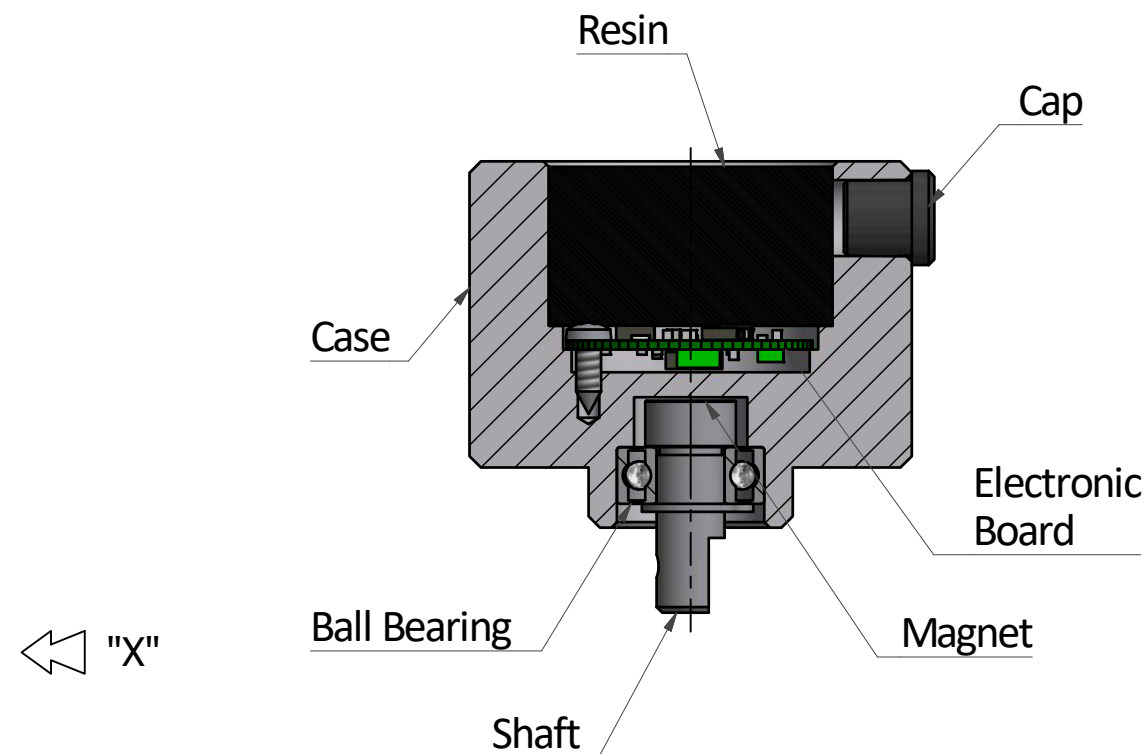
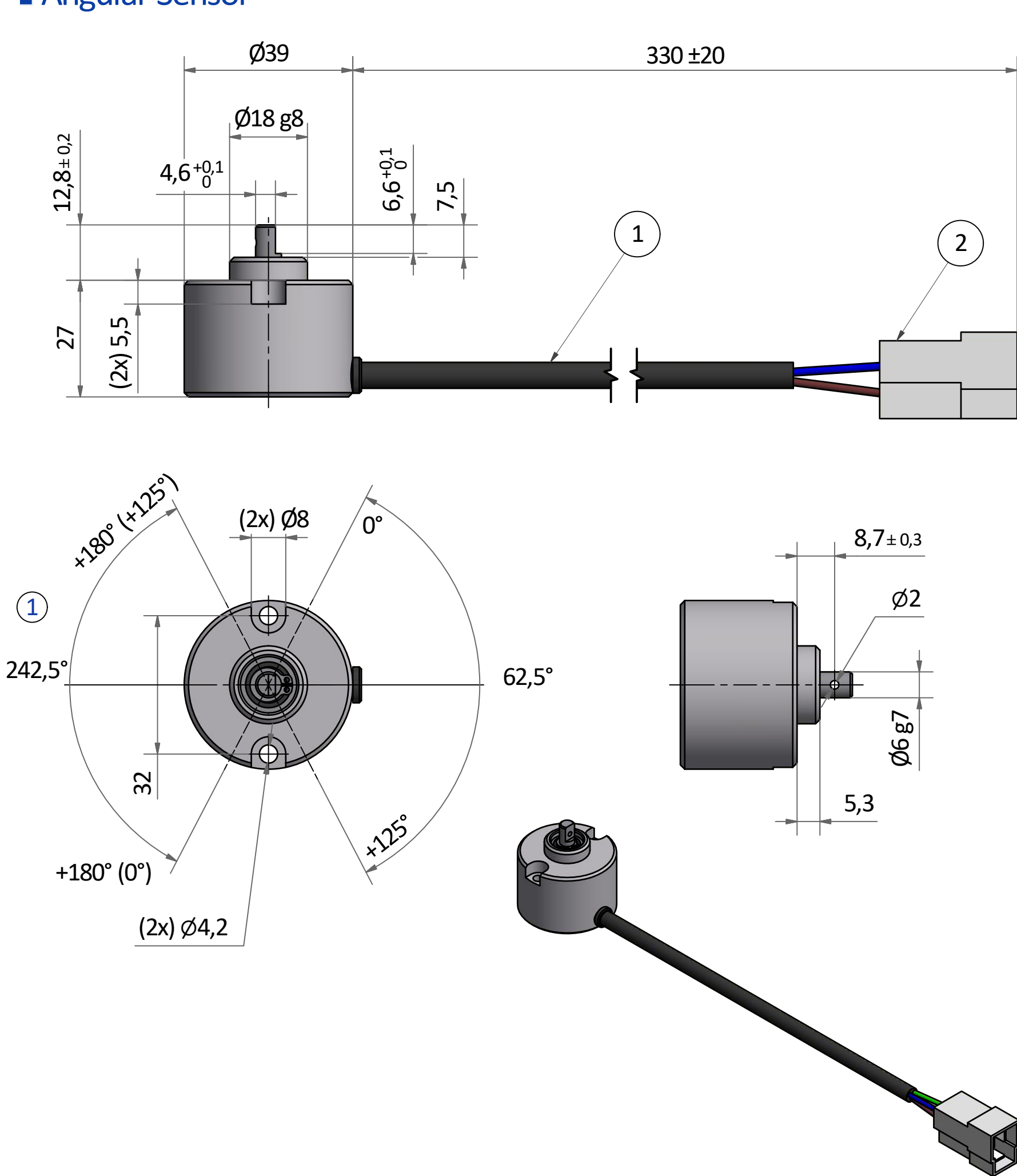


■ Angular Sensor



Ref.	Description	Operating Temperature
1	HT 105° Cable	-25 / +105
2	3 Pins AMP 180940-0	-40 / +125



ELEN
industrial vehicles sensors

www.elensrl.com

Elen Srl - Garbagnate Milanese (MI)

Part Number: **AA020570-58**

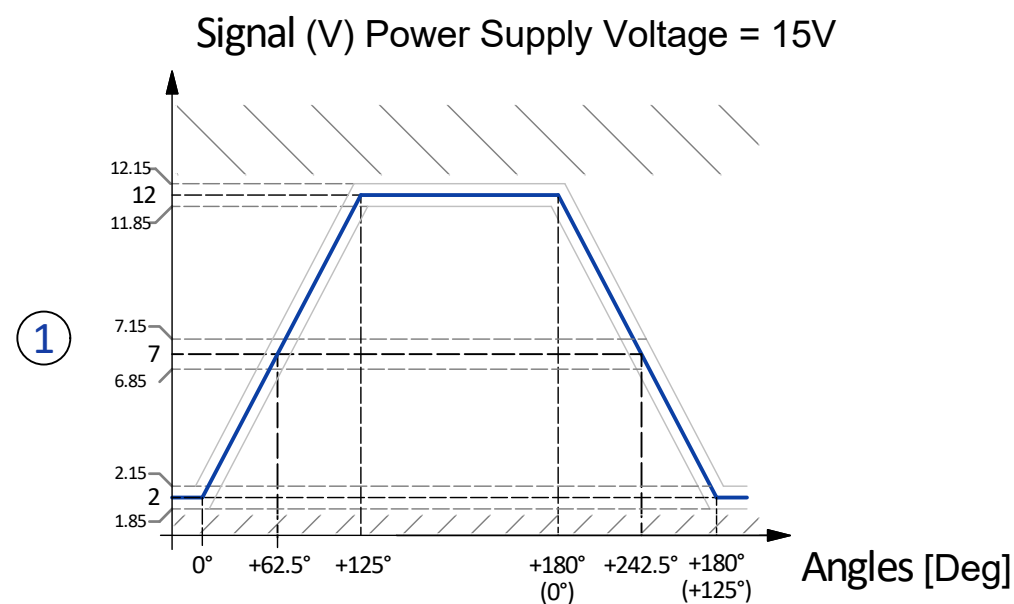
Description: **Angular Sensor 0° to 125° H=27**

Rev.	Date	Sign.	Review Description
1	07/04/2023	M.M.	Changed Output Signal and Angular Range

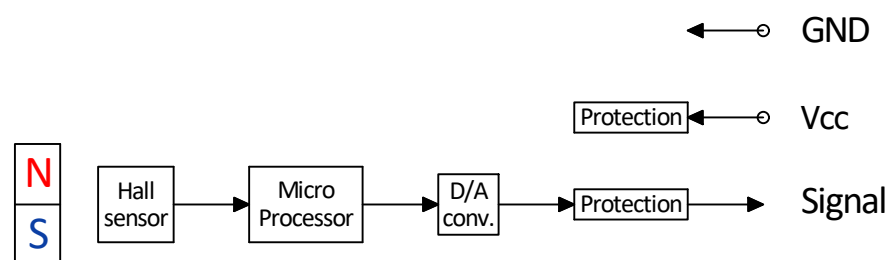
Designed	24/02/2021	A.DES	Scale: 1 : 1 (A3 format)
Checked	24/02/2021	Mauro Canavesi	Dimensions without tolerance indication: ISO 2768 - m
Approved	24/02/2021	Mauro Canavesi	Units mm

Page 1 / 2

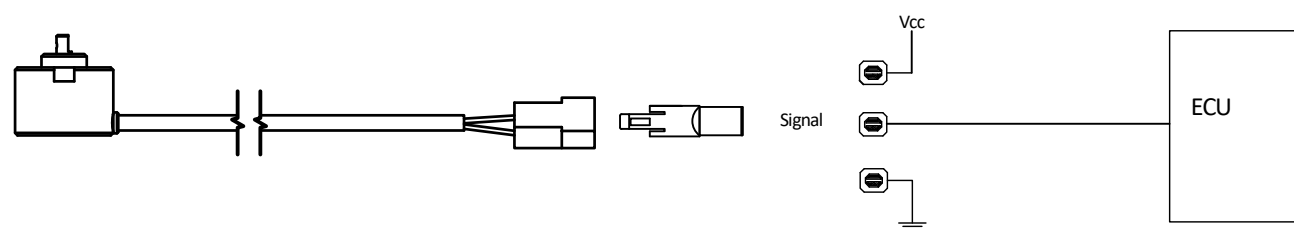
■ Output Signal



■ Functional Scheme



■ Typical Application



■ Technical Specifications

①

	Specific	Value	Standard Reference
Electrical	Power supply (Vcc)	15V±10%	ELEN PDV Rev. 3 - 5.1
	Supply Current (no load)	20mA Max	-
	Linear output	See Picture Beside @15V Power Supply Voltage	-
	Output current	Max 10 mA	-
	EMC Compatibility	BCI - Class "A" - 100mA ; 1~400 MHz	ISO 11452-4
	Electrostatic discharge protection	±8kV contact ; ±15kV air discharge	EN 61000-4-2
	Reverse polarity protection	-15V for 1h (-24V)	ELEN PDV Rev. 3 - 5.3
	Overload protection	12mA for 1h (50mA)	ELEN PDV Rev. 3 - 5.6
	Overvoltage protection	+18V for 1h (+24V)	ELEN PDV Rev. 3 - 5.7
	Output short circuit protection	To ground for 5' To Vcc for 20 s	ELEN PDV Rev. 3 - 5.4
	Dielectric rigidity	750V@50Hz For 60s	PDV Rev. 3 - P. 5.11
	Electromagnetic emissions	Broadband Radiated Emission, Narrowband Radiated	ISO 13766;
	Insulation resistance	1000MΩ@500V	PDV Rev. 3 - P. 5.10
	Temperature operating voltage	+15V@105°C For 1h	PDV Rev. 3 - P. 5.8
	Transient voltage protection	Pulses 1, 2a, 2b, 3a, 3b, 4, 5b	ISO7637-2
Environmental	Resolution	< 0,1°	-
	Linear error	< ±1%	-
	Operating temperature (for Electronic Components)	-40°C ÷ +105°C	EN 60068-2-1;EN 60068-2-2; EN 60068-2-30
	Storage temperature (for the Assembly)	-40°C ÷ +105°C	EN 60068-2-1;EN 60068-2-2; EN 60068-2-30
	Degree of protection	IP 67	IEC 60529
	Vibrations resistance - Random	f=10Hz@PSD=1.44g ² /Hz; f=100Hz@PSD=3.85g ² /Hz; f=1000Hz@PSD=3.85g ² /Hz; f=2000Hz@PSD=0.96g ² /Hz; 3 Axis - 24h For Axis	ENS0310 rev J;IEC 60068-2-6;
Mech.	Vibrations resistance - Sine	(5÷12.87)Hz@dis<±15mm, (12.87÷200)Hz@dis±15mm@5g, 10octave/min, 20 Sweep Cycles	ENS0310 rev J;IEC 60068-2-6;
	Thermal draft	< ±1%	-
	Body material	Aluminium with antioxidant treatment	-
	Shaft material	Stainless steel	-