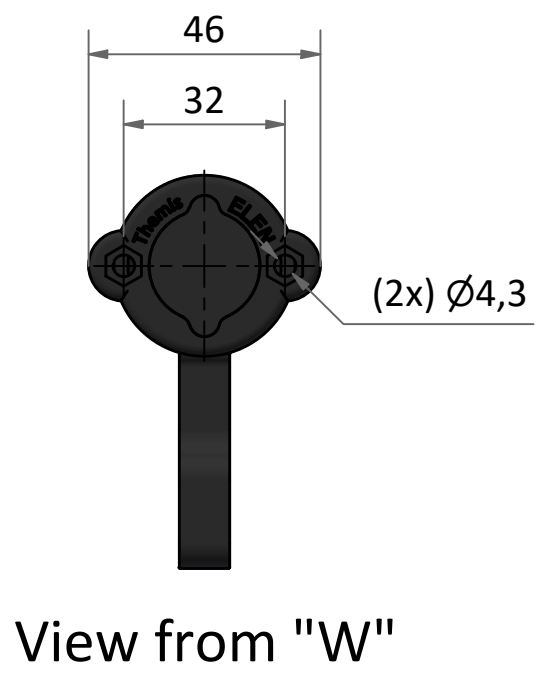
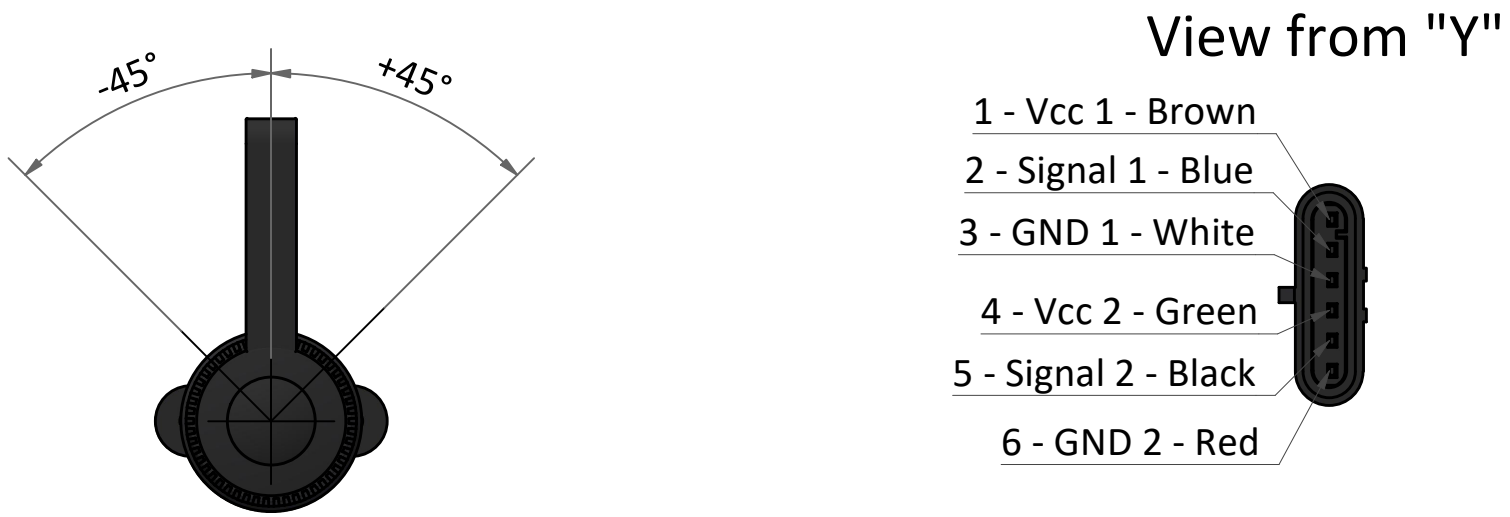
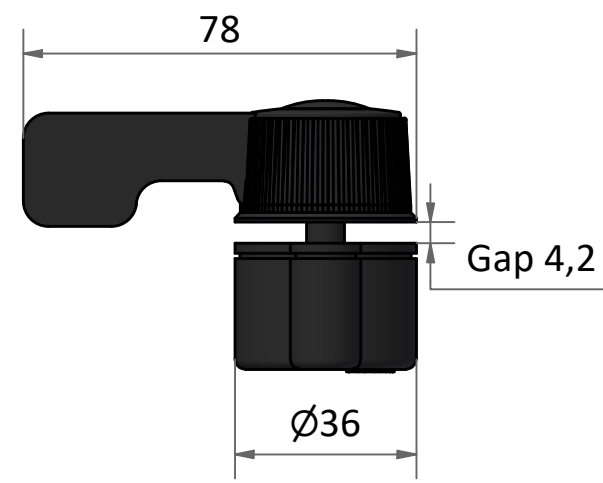
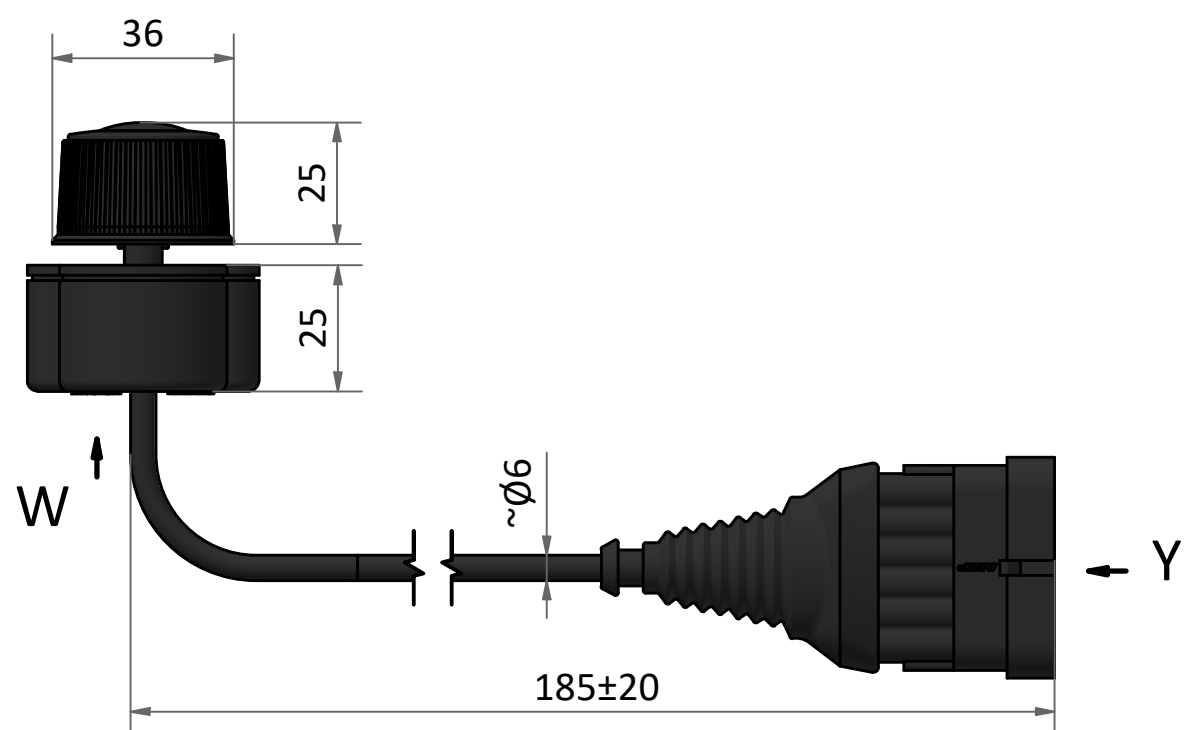


■ Electronic Knob - Themis Series

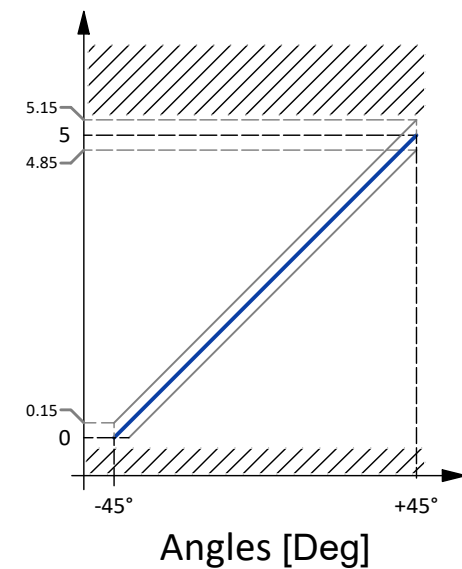


Ref.	Description	Operating temperature
1	HT 105 Cable	-25 / +105
2	Tyco Superseal 6-way connector	-40 / +125

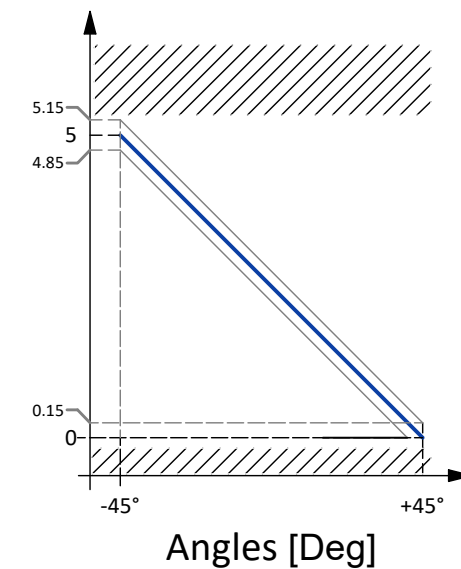
 ELEN industrial vehicles sensors		www.elensrl.com		Elen Srl - Caronno Pertusella (VA)	
		Part Number:		AA313121	
Rev.		Date	Sign.	Description	
1		22/09/2025	G.M.	Updated El.Knob Characteristics	
Designed		24/03/2025	pb	Description: Electronic Knob ±45°	
Checked		24/03/2025		Scale : 1 : 1.5 (A3 format)	
Approved		24/03/2025		Dimensions without tolerance indication: ISO 2768 - m	
					Units mm
				Page 1 / 2	

■ Output Signal

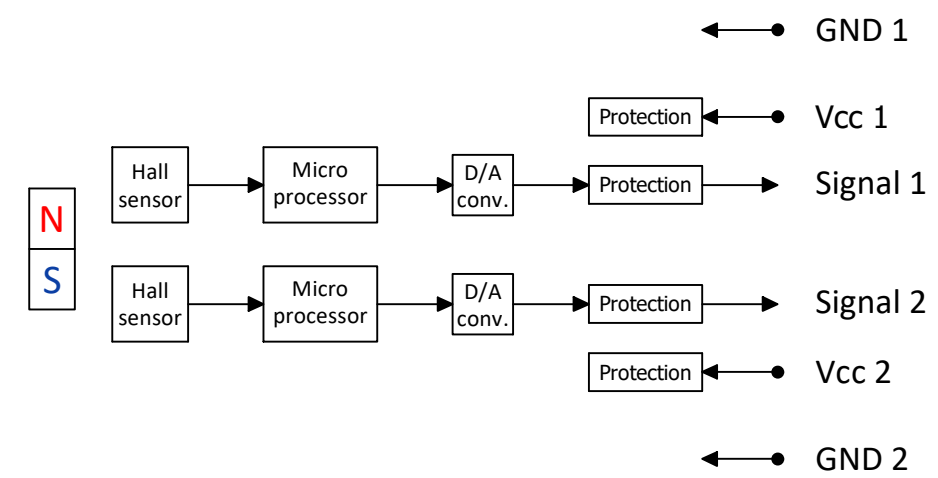
Signal 1 (V) @Vin = 12V



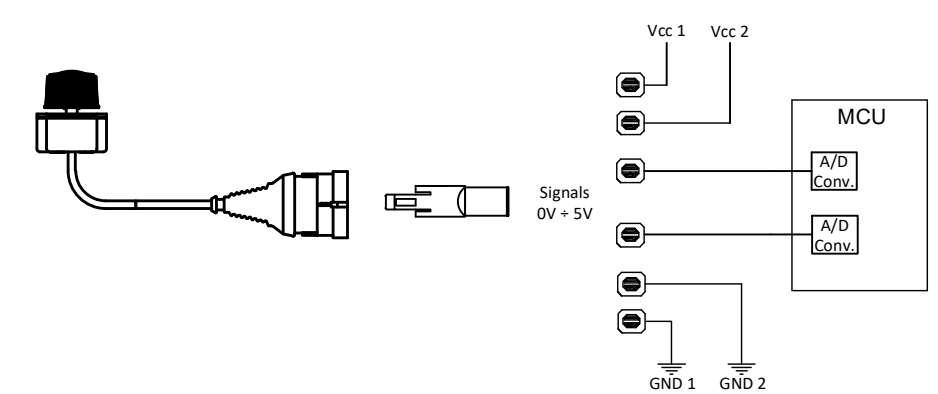
Signal 2 (V) @Vin = 12V



■ Functional Scheme



■ Typical Application



■ Technical Specifications

	Specific	Value	Standard Reference
Electrical	Supply Voltage (Vcc)	Min 10V - Max 30V	ELEN PDV Rev. 3 - 5.1
	Supply Current (No Load)	15mA Max (For Channel)	ELEN PDV Rev. 3 - 5.2
	Linear Output 1	0V@-45° ÷ 5V@+45°	-
	Linear Output 2	5V@-45° ÷ 0V@+45°	-
	Output Current	Max 20 mA (For Channel)	ELEN PDV Rev. 3 - 5.5
	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	-30V For 1h (-36V)	ELEN PDV Rev. 3 - 5.3
	Overload Protection	24 mA For 1h (50 mA)	ELEN PDV Rev. 3 - 5.6
	Overvoltage Protection	36V For 1h	ELEN PDV Rev. 3 - 5.7
	Resolution	0,1°	-
	Temperature Operating Voltage	30V @ 105°C For 1h	ELEN PDV Rev. 3 - 5.8
	Linearity Error	±1%	-
	Dielectric Rigidity	750V @ 50Hz For 60s	ELEN PDV Rev. 3 - 5.11
	Insulation Resistance	1000 MΩ @ 500V	ELEN PDV Rev. 3 - 5.10
Environmental	Shortcircuit Protection	To GND For 5' ; To Supply For 5'	ELEN PDV Rev. 3 - 5.4
	Operating Temperature (for Electronic Components)	-40°C ÷ +80°C	EN 60068-2-1;EN 60068-2-2; EN 60068-2-30;EN 60068-2-14
	Storage Temperature (for the Assembly)	-25° ÷ +105°C	EN 60068-2-1;EN 60068-2-2; EN 60068-2-30;EN 60068-2-14
	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	EN 60068-2-6; ISO 15998
Mech.	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	EN 60068-2-64 ENS 0310 Rev.J
	Body Material	Nylon 6.6 GF	-
	Shaft Material	Nylon 6.6 GF	-