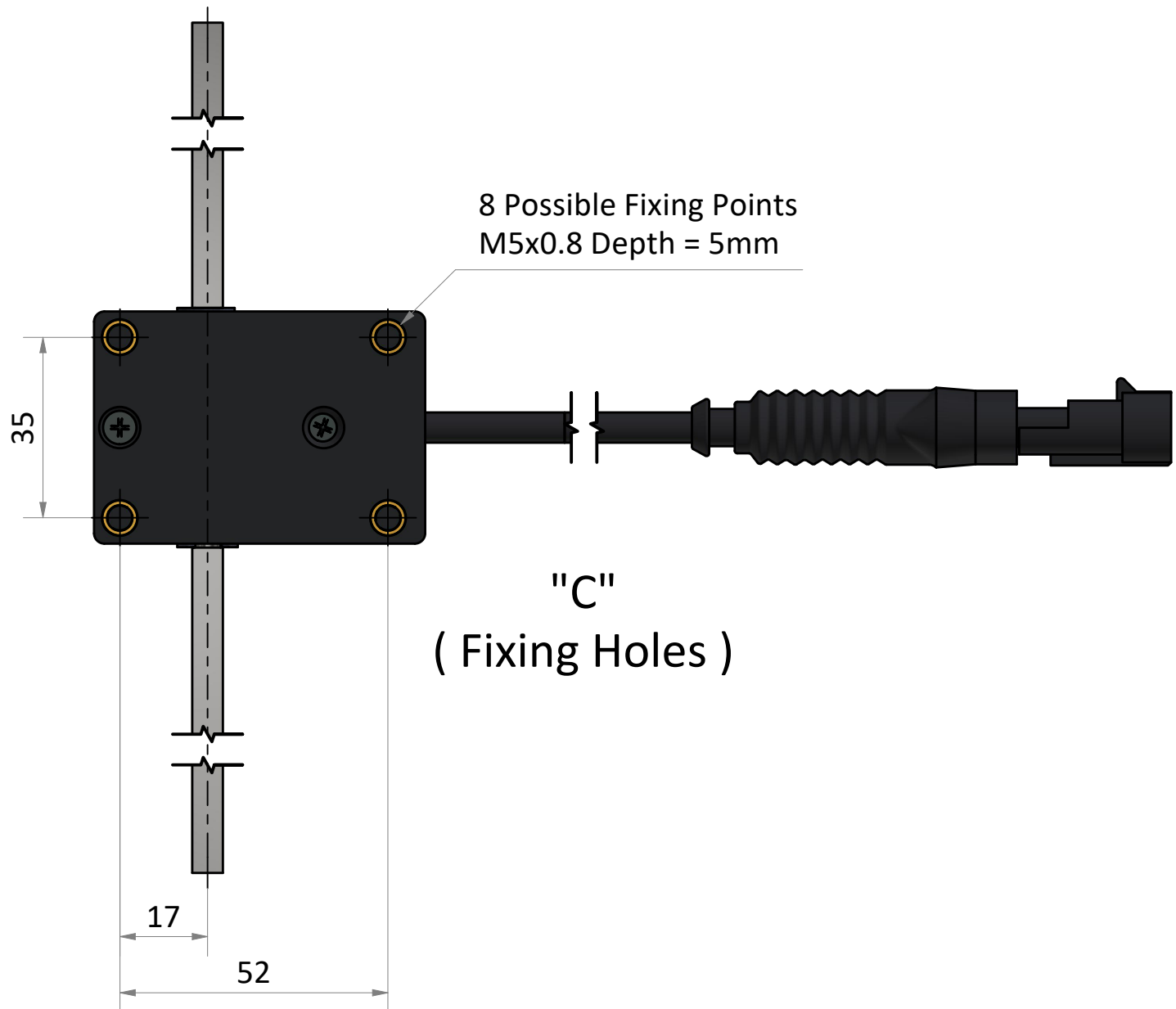
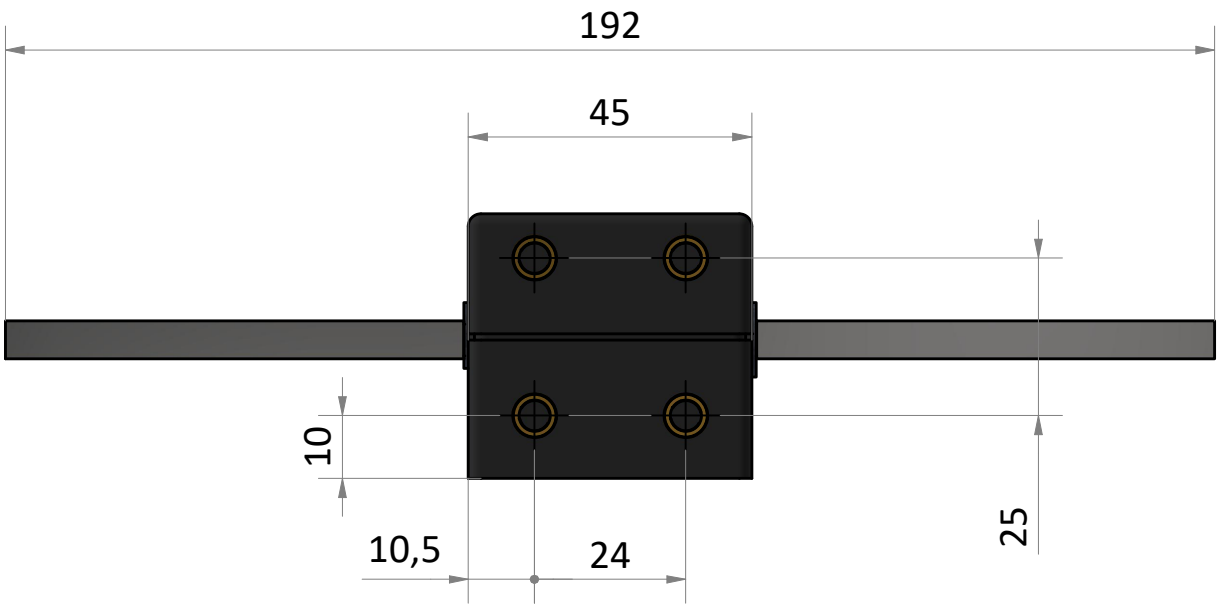
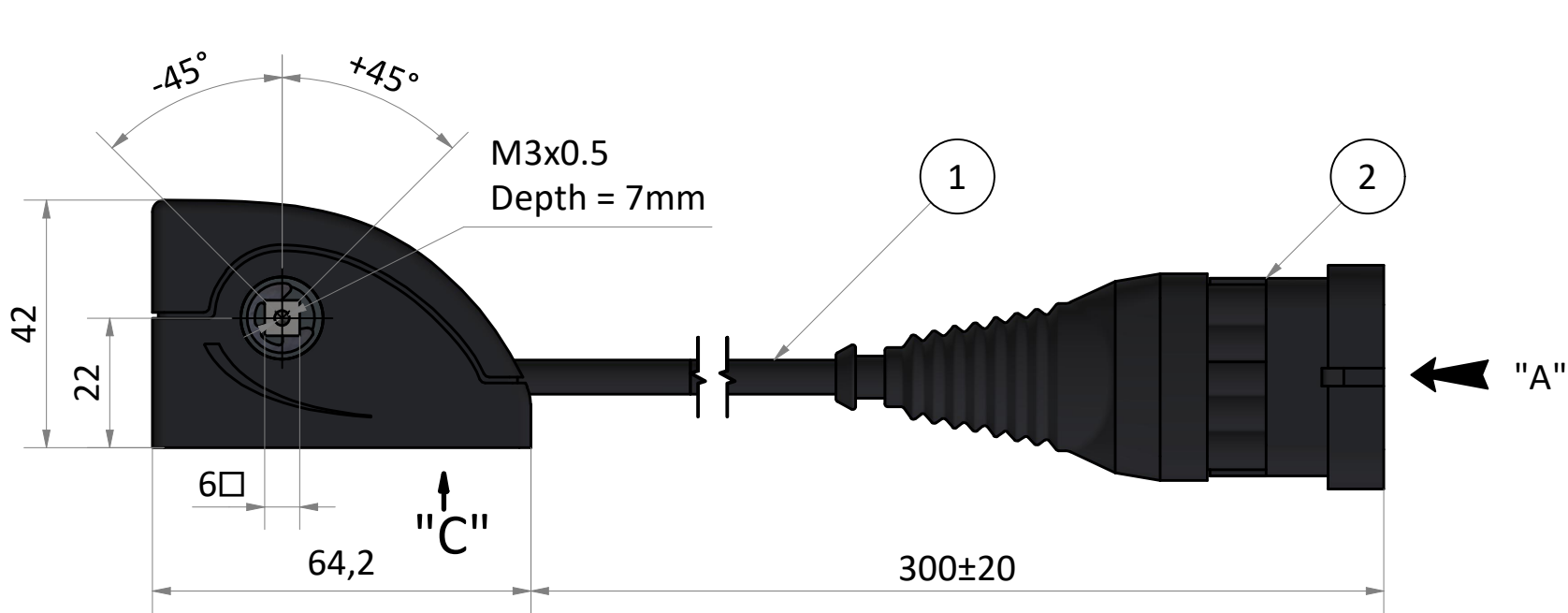


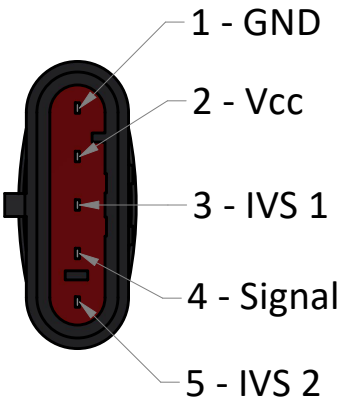
■ Accelerator Knob - Metis Series



8 Possible Fixing Points
M5x0.8 Depth = 5mm

"C"
(Fixing Holes)

View from "A"

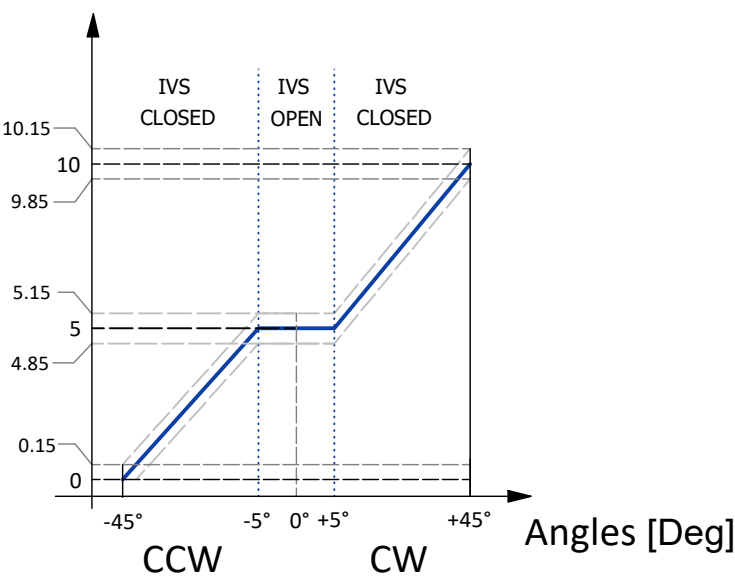


Ref.	Description	Operating temperature
1	HT 105° Cable	-30 / +105
2	Tyco Superseal 1.5 series 5 Way	-40 / +125

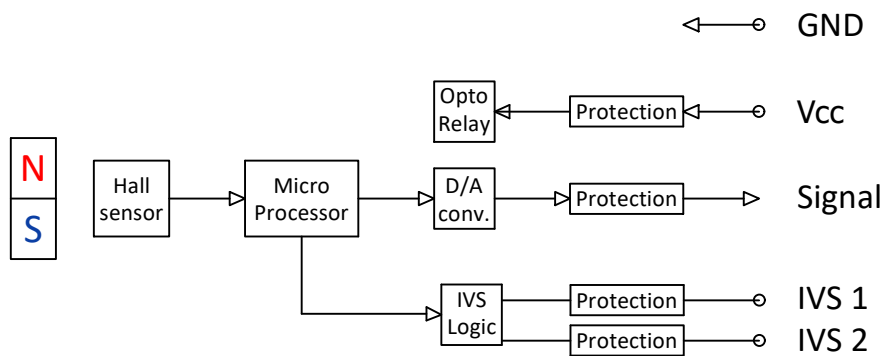
 ELEN industrial vehicles sensors				www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)			
				Part Number:		AA311191			
				Description:		Accelerator Knob Metis 12V ±45°			
Rev.	Date	Sign.	Review	Description					
				Designed	01/12/2025	Giulia M.	Scale :	1 : 1.2 (A3 format)	
				Checked	01/12/2025		Dimensions without tolerance indication: ISO 2768 - m		
				Approved	01/12/2025			Units mm	Page 1 / 2

■ Output Signal

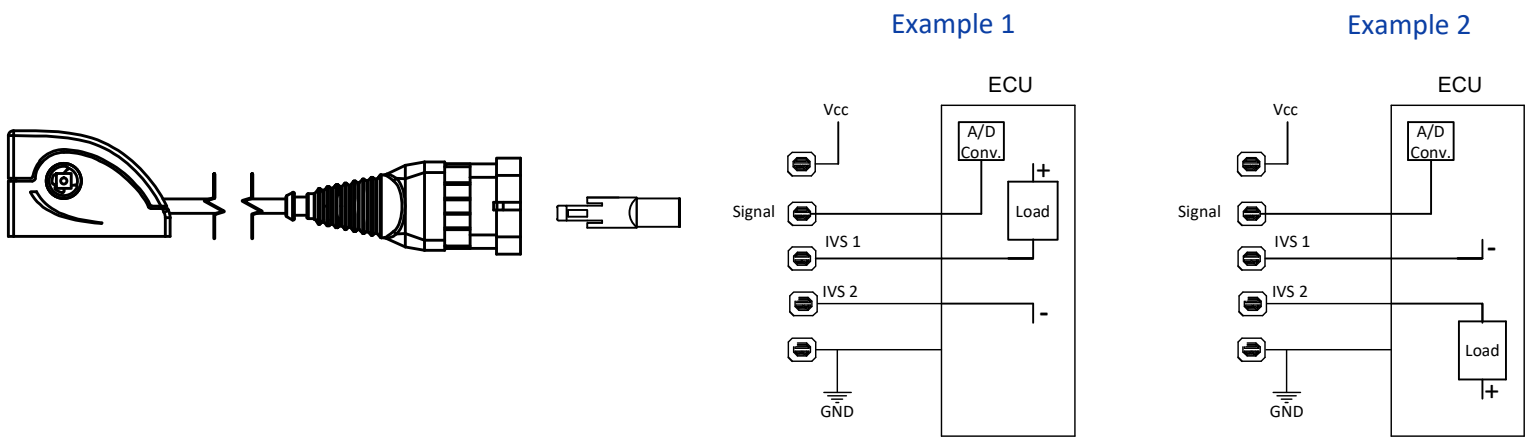
Signal (V) @Vin = 10V ÷ 30V



■ 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	10mA Max	PDV Rev. 3 - P. 5.5;
	Supply Current (No Load)	30mA Max	PDV Rev. 3 - P. 5.2;
	Overload Protection	12mA For 1h	PDV Rev. 3 - P. 5.6;
	Overvoltage Protection	36V For 1h	PDV Rev. 3 - P. 5.7;
	Temperature Operating Voltage	30V @ 80°C For 1h	PDV Rev. 3 - P. 5.8;
	Output Signal	Linear 0V@-45° [+0.15V]÷10V@+45° [±0.15V]	-
	Indipendent IVS Circuit	Optoisolated,Closed@ DEG[-45°÷-5°]and[+5°÷+45°-I]; Open@ DEG [-5°÷+5°] ; 100mA Max (Peak AC/DC) @250V Max (Peak AC/DC)	PDV Rev. 3 - P. 5.9;
	Reverse Polarity Protection	-30V For 1h	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;
	Linearity	<±1%	-
	Resolution	<12 bit	-
Environmental	Operating Temperature (for Electronic Components)	-30°C ÷ +80°C	IEC 60068-2-14; IEC60068-2-1; IEC60068-2-2; IEC60068-2-30;
	Storage Temperature (for the Assembly)	-25°C ÷ +105°C	IEC 60068-2-14; IEC60068-2-1; IEC60068-2-2; IEC60068-2-30;
	Degree Of Protection	IP67	IEC 60529;
	Vibrations Resistance - Random	f=10Hz@PSD=1.44g2/Hz; f=100Hz@PSD=3.85 g2/Hz, f=1000Hz@PSD=3.85g2/Hz, f=2000Hz@PSD=0.96g2/Hz; 3 Axes - 24h for Axis	IEC 60068-2-64; ENS 0310 Rev J;
	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	ISO11452-8:2015;
Mech.	EMC Compatibility - BCI	BCI Class "A" - 100mA; (1÷400)MHz	ISO11452-4;
	Body Material	Nylon 6.6 GF	-
	Cover Material	Nylon 6.6 GF	-
	Shaft Material	Stainless steel	-
	Tightening Torque	2.3 Nm	-