

Description		
Case	aluminium, varnished, shaft passage sealed	
Shaft	stainless steel	
Bearings	stainless ball bearings	
Resistance element	conductive plastic	
Wiper assembly	precious metal multi-finger wiper	
Mounting position	any optional position	
Connections	7pin connector; all-metal round plug, freely rotatable, 90° right angled, protection class IP 65, bayonet catch	
Electrical circuitry	gybrid circuit integrated into housing	
Mechanical Data		
Dimensions	see drawing	
Mounting	with 4 mounting clamps Z-4-1	
Mechanical travel	360, continuous	°
Permitted shaft loading (axial and radial) static or dynamic force	300	N
Starting torque	< 10	Ncm
Maximum operational speed	2000	RPM
Weight approx.	1200	g
Electrical Data		
Actual electrical travel	360	°
Absolute linearity	±0.07	%
Repeatability	0.002 (~0.007°)	%
Effective temperature coefficient of resistance	typical 100	ppm/K
Supply for on-board electronics ($\pm U_B$)	±15 (±1)	V
Potentiometer supply voltage (U_{Ref})	≤ ±10	V
Inhibit signal from $\pm U_B$ to zero	approx. 50	µs
Zero offset	< 2	mV
Max. difference of supply voltage U_{Ref}	±2	mV
Output current	5, short-circuit protected	mA
Output resistance	< 0.1	Ω
Electronic circuit current (no load)	10	mA
Insulation resistance (250 VDC, 1 bar, 2 s)	≥ 10	MΩ
Dielectric strength (50 Hz, 2 s, 1 bar, 250 VAC)	≤ 100	µA
Environmental Data		
Temperature range	0...+70	°C
Vibration	10...2000 Amax = 0.76 amax = 20	Hz mm g
Shock	50 11	g ms
Life	50 million	movements
Protection class	IP65 (DIN 400 50 / IEC 529)	

Included in delivery

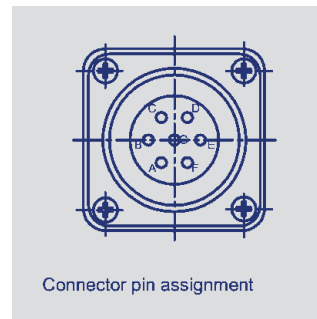
3 mounting clamps Z-4-1,
Right-angled plug Cannon No.
CA 08 COM-E16S-1S-B,
1 anti-kink sleeve

Recommended accessories

Spring-operated backlash-free
coupling Z-110-G10,
MAP process control indicators
with display
MUP/MUK signal conditioners
for standardised voltage or
current outputs.

Order designations

Type	P/N
AWS-360-ZE-10	011061



Connector pin assignment