



**Typical Specifications**

**LOW-NOISE MODELS: UNIAXIAL ASC CS-1711LN ; BIAXIAL: ASC CS-1511LN ; TRIAXIAL: ASC CS-1611LN**

**DYNAMIC**

		Measurement Range ( $\pm$ g)			
		$\pm$ 2g	$\pm$ 5g	$\pm$ 10g	$\pm$ 50g
Sensitivity	mA/g	4	1.6	0.8	0.16
Frequency response: $\pm$ 5%	Hz	100		300	650
Amplitude non-linearity	% FSO			<1	
Transverse sensitivity	%			<3	
Shock limit	$\pm$ g	1000			2000
Recovery time	ms		1		

**ELECTRICAL**

Excitation voltage	V DC			8 to 30	
Zero acceleration output	mA			12	
Output Impedance	$\Omega$			100	
Isolation				Case Isolated	
Spectral noise (typical)	$\mu$ g/ $\sqrt$ Hz	10	15	20	100
Broadband noise ( $\pm$ 5% frequency range, typical)	$\mu$ V	0.4	0.2	0.3	0.4

**ENVIRONMENTAL**

Temperature coefficient of sensitivity	%/ $^{\circ}$ C			0.02	
Operating temperature range	$^{\circ}$ C			-20 to +70	
Storage temperature range	$^{\circ}$ C			-30 to +80	
Sealing				IP67	

**PHYSICAL**

Sensing element		MEMS Capacitive
Case material		Anodised Aluminium
Connector		Cable gland (Binder / Comtronic)
Mounting		M3 / M5 Screws
Weight (without cable)	gram	Uniaxial: 27 Biaxial: 35 Triaxial: 65
Cable		Uniaxial: 2m, PVC (2 x 0.5mm <sup>2</sup> ) Biaxial: 2m, PVC (4 x 2 x 0.22mm <sup>2</sup> ) Triaxial: 2m, PVC (6 x 0.25mm <sup>2</sup> )

**FACTORY CALIBRATION (SUPPLIED WITH THE SENSOR)**

**Low-noise series: ASC CS-1711LN; ASC CS-1511LN; ASC CS-1611LN**

Range	±2g	±5g	±10g	±50g
Frequency Response	1Hz to 100Hz		10Hz to 300Hz	10Hz to 650Hz

**CALIBRATION DIN ISO 17025 (ORDER SEPARATELY)\***

**Low-noise series: ASC CS-1711LN; ASC CS-1511LN; ASC CS-1611LN**

Range	±2g	±5g	±10g	±50g
Frequency Response	0.5Hz to 150Hz		10Hz to 500Hz	10Hz to 1.6kHz

**CABLE CODE / PIN CONFIGURATION**

*ASC CS-1711LN*

<i>Uniaxial, 3-wire</i>		<i>Supply +</i>
		<i>Supply -</i>
		<i>Signal</i>

*ASC CS-1511LN*

<i>12-wiring-System</i>	<i>X-Axis</i>	<i>Y-Axis</i>
	<i>Supply +</i>	<i>Supply +</i>
	<i>Supply -</i>	<i>Supply -</i>
	<i>Signal</i>	<i>Signal +</i>

*ASC CS-1611LN*

<i>12-wiring-System</i>	<i>X-Axis</i>	<i>Y-Axis</i>	<i>Z-Axis</i>
	<i>Supply +</i>	<i>Supply +</i>	<i>Supply +</i>
	<i>Supply -</i>	<i>Supply -</i>	<i>Supply -</i>
	<i>Signal</i>	<i>Signal +</i>	<i>Signal +</i>

**ORDERING INFORMATION**

Model	Range	Cable length	Connector	Protection class
ASC CS-1711LN	XXX	YYY	A: open-ended cable (no connector at the DAQ end)	IPXX
	002: ±2g	050: 50m		IP67 (standard)
ASC CS-1511LN	005: ±5g	100: 100m	Contact factory for all available	IP68
	010: ±10g	150: 150m	connector options such as Lemo,	
ASC CS-1611LN	050: ±50g	200: 200m	BNC etc.	

**QUALITY**

- 1) ASC is ISO 9001:2015 certified
- 2) The Deutsche Akkreditierungsstelle GmbH (DAkkS) has awarded to our calibration laboratory the DIN EN ISO/IEC 17025:2005 accreditation for calibrations and has confirmed our competence to perform calibrations in the field of mechanical acceleration measurements.