

CA SERIES
TRANSDUCER
SPECIFICATIONS

CA-302 ACCELERATION TRANSDUCER



Model Code / Additional Spec. Code

CA-302-00- /EX

Armor		Intrinsically safe	
0	Without	0	TIIS Ex ia IIB T3 X
1	With	1	TIIS Ex ia IIB T4 X
		2	TIIS Ex ia IIC T3 X
		5	ATEX Ex ia IIC T4 Ga
		7	NEPSI EX ia IIC T4 Ga
		8	KTL EX ia IIC T4

SPECIFICATIONS

Sensitivity	100mV/9.8m/s ² (100mV/g REF.)pk±10% at 100Hz, and 25°C
Acceleration Range	490m/s ² (50g REF.)pk
Vibration Limit	4,900m/s ² (500g REF.)pk
Shock Limit	9,800m/s ² (1,000g REF.)pk
Max. Shock Energy	4J (intrinsically safe)
Linearity	±1% of F.S.
Natural Frequency	30kHz
Frequency Response	2 to 5,000Hz±10%, 1 to 10,000Hz±3dB
Transvers Sensitivity	Max. 10%
Output Impedance	100Ω
Power Supply	20 to 30VDC, 2 to 10mA (non-intrinsically safe) 20 to 25.5VDC, 2 to 10mA (intrinsically safe)
Grounding	Case isolated, internally shielded
Temperature Response	Within ±10% (Around the operating temperature range)
Operating Temperature range	-20 to +120°C
Range of Temperature at Explosion Proof Construction	-20 to +60°C (Intrinsically safe : EX0,EX2,EX7) -20 to +40°C (Intrinsically safe : EX1) -50 to +120°C (Intrinsically safe : EX5,EX8)
Relative Humidity	100%RH
Protection Rating	IP67
Weight	Approx.90g
Case Material	Stainless steel
Sealing	Hermetic
Cable	2-conductor shielded, Cable length : Approx.5m
Accessory	M6 Mounting stud (1 piece)