

MODEL CODE

CA-72

Cable Type	
1	Connector Type
2	With integral cable type *1 (2-conductor shielded cable 3m standard)

Standard type

CW- E-EF- 0-

Drip-proof type

CW- F-FF- 0-

Cable length		Lug type*2		Armor	
050	5m	0	Cut off	0	Without
100	10m	R	Ring lug	1	With*3
150	15m	Y	Spade lug		

Note) *1 Cable length 3m (end cut off),
CW cable not required.

*2 M3.5 crimping terminals at the
cable ends are standard.

*3 With armor : Cable length ≤ 50m

SPECIFICATIONS

Sensitivity	100mV/9.8m/s ² (100mV/g REF.)pk ± 5% at 100Hz, 25°C
Acceleration Range	490m/s ² (50g REF.)pk
Vibration Limit	4,900m/s ² (500g REF.)pk
Shock Limit	49,000m/s ² (5,000g REF.)pk
Amplitude Nonlinearity	1.0%
Natural Frequency	26kHz
Frequency Response	3 to 5,000Hz ±5%, 2 to 7,000Hz ±10%, 1 to 15,000Hz ±3dB
Transvers Sensitivity	Max. 5%
Output Impedance	100Ω(typical)
Grounding	Case isolated, internally shielded
Temperature Response	±10% (around the operating temperature range)
Power Supply	18 to 30VDC, 2 to 10mADC (constant current)
Operating Temperature Range	-50 to +120°C
Relative Humidity	100%RH
Case Material	Stainless Steel
Sealing	Hermetic
Protection Rating	IP67(CA-721 & CW- <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> F-FF, CA-722)
Weight	Approx. 120g (CA-721) Approx. 230g (CA-722(including cable))
Accessories Supplied	M6 mounting stud
Output Connector*4	MIL-C-5015 2-pin
Matching Connector*4	D/MS3106A10SL-4S
Cabling	CA-721 : Twisted pair shielded cable CA-722 : 2-conductor shielded cable (integral cabling type)
Recommended Cable Shielded Specifications	AWG No.20 to No.16 gage (0.5mm ² to 1.25mm ²) Twisted pair shielded cable

*4 CA-721 TYPE SPECIFICATIONS

CA SERIES
TRANSDUCER
SPECIFICATIONS

CA-101 ACCELERATION TRANSDUCER



Model Code / Additional Spec. Code

CA-101-00- 0

SPECIFICATIONS

Sensitivity	100 mV/9.8 m/s ² (100 mV/g REF.) ±15 % at 80 Hz, and 25 °C
Acceleration Range	392 m/s ² (40 g REF.) pk
Shock Limit	9,800 m/s ² (1,000 g REF.) pk
Natural Frequency	18 kHz (typ.)
Frequency Response	10 to 3 kHz ±3 dB
Transvers Sensitivity	Max. 10 %
Output Impedance	Less than 200 Ω
Power Supply	20 to 30 VDC, 2 to 8 mA
Insulation	Signal Power and Common terminal are insulated from sensor case
Temperature Response	Within ±20 % (Around the operating temperature range)
Operating Temperature range	-20 to +80 °C
Protection Rating	IP67
Sensor body mass	Approx.120 g
Case Material	Stainless steel
Cable	2-conductor shielded, Cable length : Approx.5m
Accessory	M6 Mounting stud (fixed sensor body)

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.)±5% 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
Amplitude Nonlinearity	1.0%
Max. Shock Energy	4J (intrinsically safe)
Natural Frequency	30kHz
Frequency Response	2 to 5,000Hz±10%, 1 to 10,000Hz±3dB
Transvers Sensitivity	Max. 5%
Output Impedance	100Ω(typical)
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	-50 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

[NOTICE]

The instructions manual contains important information such as conditions necessary for safe handling of the system. Such information and conditions are important and indispensable for ensuring safety. Therefore, be sure to read the instructions manual thoroughly before handling the system.