

WK SERIES

2-wire TRANSMITTER



**Monitors or signal converters are unnecessary.
Electric current output makes long wiring possible.
Direct connection to control instruments.
The ideal system for monitoring small compressors.**



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* Specifications, outline drawings and other written information can be changed without notice.

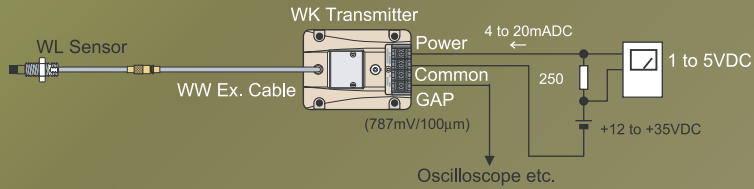
SIMPLE WIRING - 2-WIRE TRANSMITTER

The WK series transmitter is an eddy-current type transmitter that incorporates vibration converter features, supplying the power and transmitting the signal with a 2-wire current loop. The WK system reduces equipment and wiring costs. Two kinds of transmitters are available - the WK-142K for shaft vibration, and the WK-142T for thrust position.

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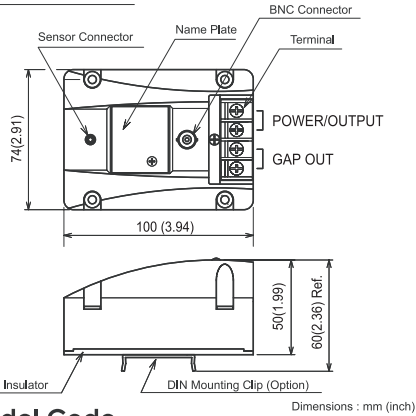


Example of SYSTEM CONFIGURATION



Outline Drawing

WK Transmitter



Specifications

CALIBRATED MATERIAL		JIS SCM440 (AISI 4140 Steel) flat surface
4 to 20mA OUTPUT RANGE	WK-142K	0 to 100µm pk-pk 0 to 125µm pk-pk 0 to 200µm pk-pk
	WK-142T	-0.6 to 0 to +0.6 mm -0.635 to 0 to +0.635 mm (-25 to 0 to +25 mils)
SCALE FACTOR		7.87 mV/µm
SCALE FACTOR ERROR		7.87 mV/µm +/- 6.5 % typ. (Included interchangeability errors) Step : 200 µm, Target : 30 mm dia.
LINEAR RANGE		1.4 mm (Gap : 0.3 to 1.7 mm)
FREQUENCY RESPONSE		5 to 6,000 Hz (+0dB to -3 dB) at 900 µm Gap
OUTPUT IMPEDANCE (Gap output)		10kΩ (It's calibrated load impedance at 10kΩ)
SYSTEM LENGTH		5 m or 7 m
USAGE TEMPERATURE RANGE		Sensor : -34 to +177 deg. C Transmitter : 0 to 70 deg. C
RELATIVE HUMIDITY		95 %PH (non condensing)
POWER VOLTAGE		12 to 35 VDC

Model Code

For Shaft Vibration

WK-142K □ - □ /NB1 /DNC /CEM

System Cable Length	Output Range	Non-incendive	With DIN Mounting Clips	CE Mark
1 5m	1 0 to 100 µm pk-pk	1 CSA : Class I Div.2 A,B,C,D ATEX : EEx nA II T6		
2 7m	2 0 to 125 µm pk-pk			
3	3 0 to 200 µm pk-pk			

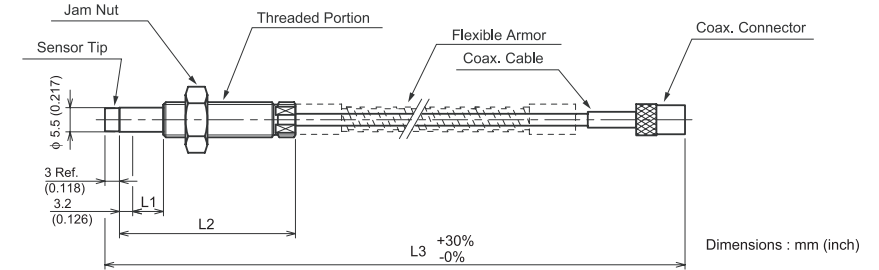
For Thrust Position

WK-142T □ - □ /NB1 /DNC /CEM

System Cable Length	Output Range	Non-incendive	With DIN Mounting Clips	CE Mark
1 5m	1 -0.6 to 0 to +0.6 mm	1 CSA : Class I Div.2 A,B,C,D ATEX : EEx nA II T6		
2 7m	2 -0.635 to 0 to +0.635 mm (-25 to 0 to +25 mils)			

Outline Drawing and Model Code

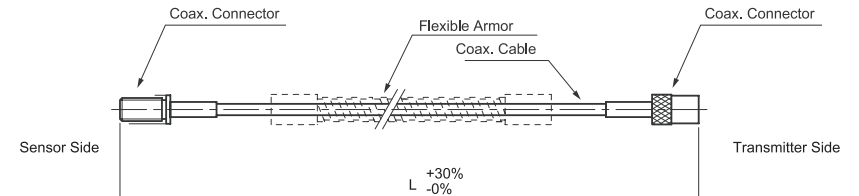
WL Sensor



WL-142K05 □ - □ /NB1

Armor	Threaded Size	Unthreaded length* (L1)	Case length* (L2)	Cable length (L3)	Non-incendive
A With (Without Teflon coating)	M1 M8 x 1	10 mm step, 0 to 230mm e.g.) 06 = 60 mm L1 ≤ L2- 20 mm	10mm step, 20 to 250 mm e.g.) 25 = 250 mm	1 0.5 m	1 CSA : Class I Div.2 A,B,C,D ATEX : EEx nA II T6
T With (With Teflon coating)	M2 M10 x 1			2 1.0 m	
L Without	U1 1/4-28 UNF-2A U2 3/8-24 UNF-2A	0.1 inch step, 0 to 9.2 inch e.g.) 01 = 0.4 inch L1 ≤ L2- 0.7 inch	0.1 inch step, 0.8 to 9.9 inch e.g.) 35 = 3.5 inch	3 5.0 m 4 7.0 m	

WW Extension Cable



WW-142K □ - □ /NB1

Armor	Extension Cable length	Non-incendive
A With (Without Teflon coating)	1 4.0 m	1 CSA : Class I Div.2 A,B,C,D ATEX : EEx nA II T6
T With (With Teflon coating)	2 4.5 m	
L Without	3 6.0 m 4 6.5 m	