

YS (YEKAN Replacement SHINKAWA) WK-142K 2-WIRE VIBRATION TRANSMITTER

Datasheet

Rev. V1.1



Description

The **YS** Series components are manufactured to ensure complete interoperability and technical compliance with the original Shinkawa specifications. Specifically, the YS offering covers all critical system elements:

- Probes: Direct replacement for Shinkawa WL Series Probes.
- Cables: Direct replacement for Shinkawa WW Series Cables.
- Transmitters: Direct replacement for Shinkawa WK Series Transmitters.

Crucially, all Yekan YS Series probes, cables, and transducers are designed and tested to integrate seamlessly into existing Shinkawa monitoring loops. This ensures accurate, field-calibratable performance directly within the installed Shinkawa infrastructure, providing a reliable and high-quality path for system upgrades, maintenance, or spare parts procurement without compromising measurement integrity.

YS For WK-142K series Proximity System

Ordering Information

YS/WL Sensor **YS/WL-142K05 A-BBCCDDE**

Armor A		Threaded Size BB		Unthreaded Length (L1) CC	Case Length (L2) DD	Cable Length (L3) E	
A	with (without fluoro resin coating)	M1	M8*1	10 mm step, 0 to 230 mm e.g.) 06 = 60 mm	10 mm step, 0 to 250 mm e.g.) 25 = 250 mm	1	0.5 m
T	with (with fluoro resin coating)	M2	M10*1			2	4.5 m
L	without	U1	1/4-28 UNF-2A	0.1 inch step, 0 to 9.2 inch e.g.) 04 = 0.4 inch	0.1 inch step, 0.8 to 9.9 inch e.g.) 35 = 3.5 inch	3	5.0 m
		U2	3/8-24 UNF-2A			4	7.5 m

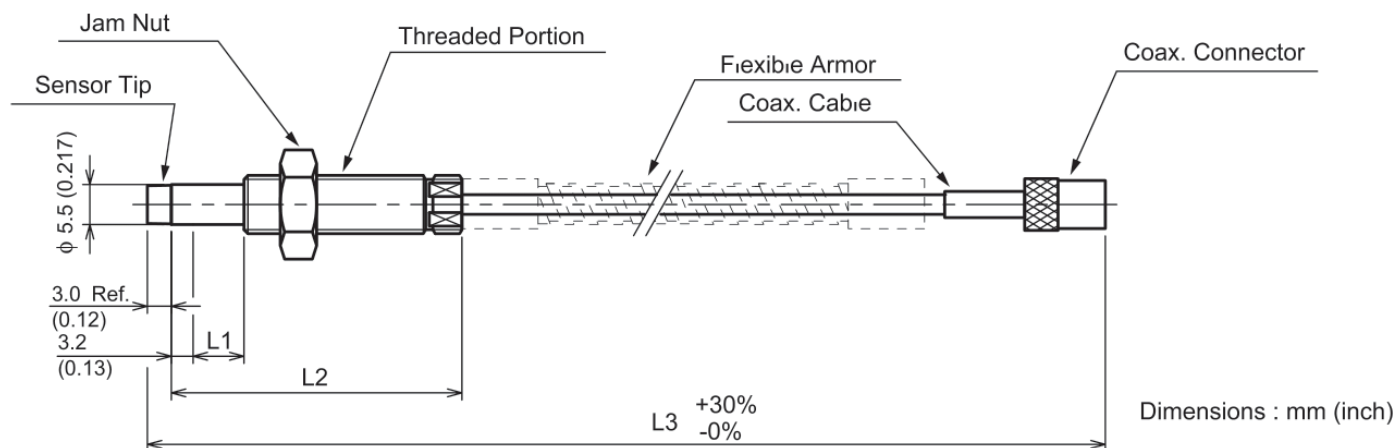


Figure 1. YS/WL SENSOR

YS For WK-142K series Proximity System

YS/WW Extension Cable YS/WW-142K A-B

Armor		Extension Cable Length	
A		B	
A	with (without fluoro resin coating)	1	4.0 m
T	with (with fluoro resin coating)	2	4.5 m
L	without	3	6.0 m
		4	6.5 m
		5	8.0 m
		6	8.5 m

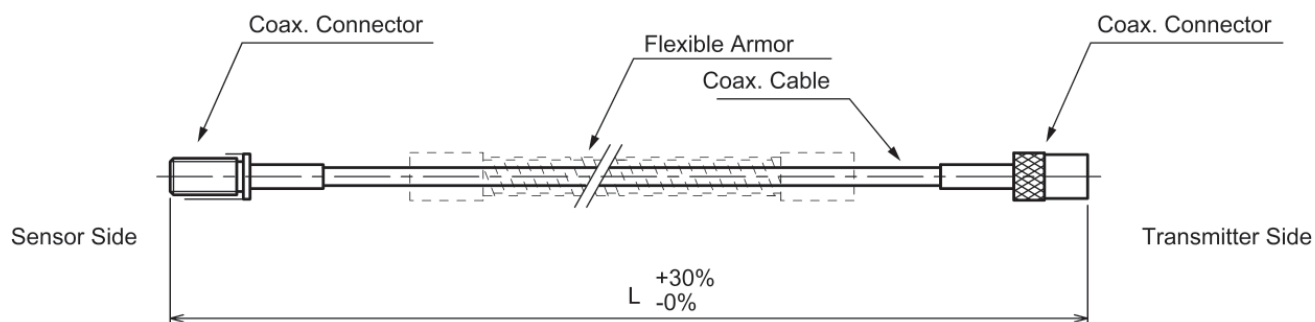


Figure 2. YS/WW Extension Cable

YS For WK-142K series Proximity System

YS/WK Transmitter For Shaft Vibration **YS/WK-142K A-B**

System Cable Length A		Extension Cable Length B	
1	5 m	1	0 to 100 μm pk-pk
2	7 m	2	0 to 125 μm pk-pk
5	9 m	3	0 to 200 μm pk-pk
		4	0 to 250 μm pk-pk
		5	0 to 400 μm pk-pk

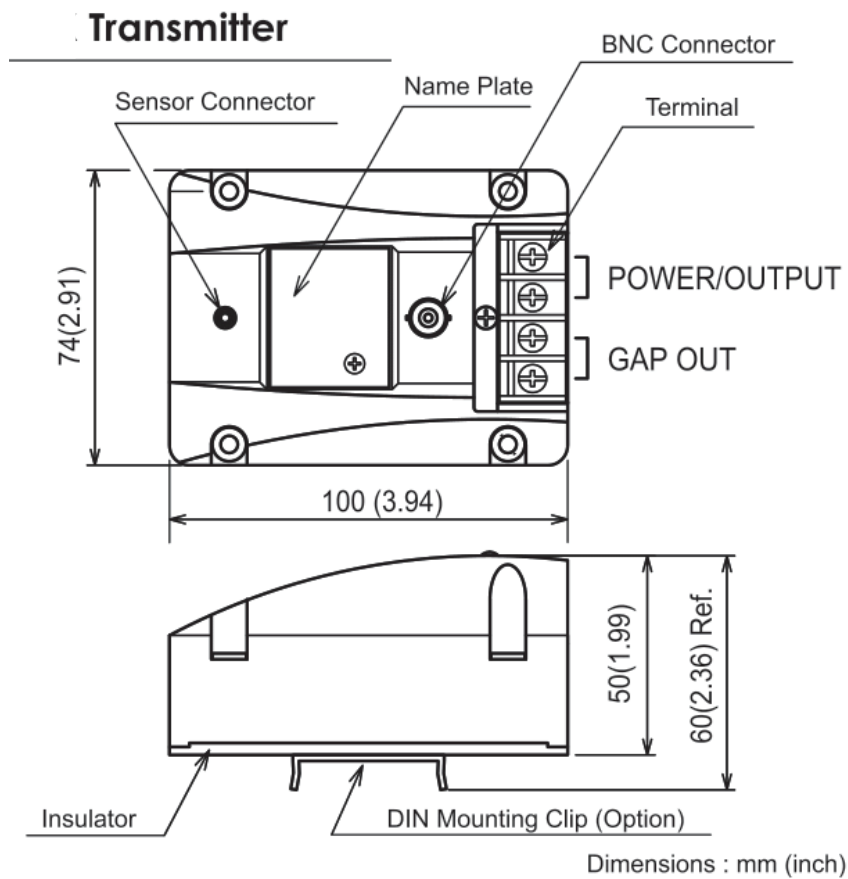


Figure 3. YS/WK Transmitter

Specifications

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Current Output

4 to 20mA Output Range	0 to 100 m pk-pk 0 to 125 m pk-pk 0 to 200 m pk-pk 0 to 250 m pk-pk 0 to 400 m pk-pk
4 to 20mA Output Conversion Accuracy	1.5% of full scale range (from test signal input pin to current output)

Gap Output

Calibration Material	AISI 4140 equivalent
Linear Range	1.4 mm (Gap : 0.3 to 1.7 mm)
Scale Factor	7.87 mV/ μ m (200 mV/mil)
Scale Factor Error	$\pm 6.5\%$ (5 m & 7 m system) $\pm 10\%$ (9 m system)

System

Operating Temperature Range	Transmitter: 0 – 70 °C Sensor & Cable: –34 – 177 °C (Connector max 125 °C)
Relative Humidity	95% RH (non-condensing)
Power Supply Voltage	12 to 35 VDC

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