

BENTLY NEVADA TECHNICAL DOCUMENT

Product Data Sheet

177313-02-02-00

01

PRODUCT IDENTIFICATION

Manufacturer	Bently Nevada
Model	177313-02-02-00
Family	TK-3 Proximity System
Product type	Proximity System Test Kit

02

VERIFIED TECHNICAL DATA

Drive configuration	177313: electric TK-3e
Scale units option	02: metric
Power cord option	02: European
Agency approval option	00: none
Electric supply specification	95-125 or 190-250 V AC; 50/60 Hz; 1 A minimum; verify unit configuration
Vibration amplitude range	50-254 micrometres peak-to-peak
Spindle micrometer range	0-25.4 mm
Accepted probe diameter	5-19 mm

03 REMAINING TECHNICAL DATA

Target and wobble plate material	AISI 4140 alloy steel
Operating environment	Indoor use; altitude up to 2000 m
Operating temperature	0-50 deg C; maximum 40 deg C for extended continuous use
Closed enclosure protection	Designed to meet IP54

04 TECHNICAL AND APPLICATION NOTES

Bently Nevada 177313-02-02-00 is an electric TK-3e proximity-system test kit with metric scale units and a European power cord. Its micrometer and motor-driven wobble plate simulate position and vibration for checking a proximity transducer chain and monitor readout. The selected approval field is 00, meaning none. The removable spindle assembly accepts 5 to 19 mm probes, while the documented vibration signal spans 50 to 254 micrometres peak-to-peak. Use the rotating-machinery precautions and the correct electrical configuration for the supplied unit.

05 APPLICATIONS

- Check a transducer against known movement: Hold the proximity probe in the universal spindle mount and move the target in calibrated increments. Record the compatible Proximity output with a voltmeter to check the transducer response. The metric scale helps relate target movement to the measured voltage.
- Compare a position monitor with the reference: Use the removable spindle micrometer assembly to supply known position changes to the connected measurement chain. Compare the monitor indication with the reference movement. Its magnetic base supports field use where the mounting location is suitable and stable.
- Exercise a vibration channel mechanically: Use the motor-driven wobble plate and swing-arm probe holder to establish a known mechanical vibration input. Compare the monitor reading with the documented signal. Keep clear of the rotating plate and use the prescribed guards, eye protection and secure mounting.

06 INSTALLATION CONTROL

Verify the electric TK-3e identity and metric scale. For extended continuous testing, keep the ambient temperature at or below 40 degrees C.