

Endress+Hauser Canada Ltd. 1440 Graham's Lane Unit 1, Burlington ON, L7S 1W3 Phone: (905) 681–9292 800–668–3199 FAX: (905) 681–9444 Endress+Hauser, Inc. 2350 Endress Place Greenwood, IN 46143 Phone: (317) 535-7138 888-ENDRESS FAX: (317) 535-8498 Endress+Hauser Paseo del Pedregal No. 610 Col. Jardines del Pedregal 01900, Mexico D.F. MEXICO Phone: (525) 568–2405 FAX: (525) 568–7459 Endress + Hauser

KA 168R/24/ae/12.03

.NV-A074 MST 941 no tun

In order to avoid damaging the compact transmitter, do not over-tighten the

Inoitus 💍

6P rating or better.

plug the compact temperature transmitter to a power supply also has NEMA The requirement to ensure NEMA 6P rating is that the female connector to

!ətoN 🖉

the cable cores from Spike 1 and 3 to a power supply.

4. Plug in the TSM 470A-VN at the compact temperature transmitter and connect

brocess pressure.

- 3. Install and tighten the compact temperature transmitter before applying
- clamp assembly match the maximum specified process pressure. 2. Make sure that the hygienic process fitting (TSM 470F & TSM 470P) and the
 - screwing in the device.
- 1. Seal the ½" NPT process connection with silicone tape (TSM 470G) before

For installation, proceed as follows:

Installation

KA 168R/24/ae/12.03 51007334

easytemp™ TSM 470A-VN Connector

Short Operating Instructions













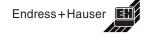
Description

Connector, unshielded, female, angled, M 12 A-coded, 4-position. This connector is manufactured by Phoenix Contact.

*Used with permission of Phoenix Contact GmbH & Co. KG.







Important Notice



Warning!

Electrical shock could cause death or serious injury. If the sensor is installed in a high voltage environment and a fault or installation error occurs, high voltage may be present on the TSM 470A-VN or the probe

Safe and secure operation of the compact RTD transmitter can only be guaranteed if the operating instructions (BA 162R/24/ae) and all safety notes are read, understood and followed. Visit www.us.endress.com/temp.

Correct use

The manufacturer cannot be held responsible for damage caused by misuse of the unit.

The installation conditions and connection values indicated in the operating instructions must be followed!

Installation, commissioning and operation

The unit is constructed using the most up to date production equipment and complies to the safety requirements of the local guidelines. However, if it is installed incorrectly or misused, certain application dangers can occur. Installation, wiring and maintenance of the unit must only be done by trained skilled personnel who are authorized to do so by the plant operator. This skilled staff must have read and understood these instructions and must follow them to the letter. The plant operator must make sure that the measurement system has been correctly wired to the connection schematics.

Hazardous areas

Installation of the compact RTD transmitter in hazardous areas is prohibited!

Please follow the Return Authorization Policy in the operating instructions (BA 162R/24/ae). All Temperature Operating Instructions are available on CD-ROM, Part Number SONDTT-AG.

Safety pictograms and symbols



Note!

Notes draw attention to activities or procedures that can have a direct influence on operation or trigger an unforeseen device reaction if they are not carried out properly. Caution!

Cautions draw attention to activities or procedures that can lead to persons being injured or to incorrect device operation if they are not carried out properly.

Warnings draw attention to activities or procedures that can lead to persons being seriously injured, to safety risks or to the destruction of the device if they are not carried out properly.

Though the information provided herein is believed to be accurate, be advised that the information contained herein is NOT a guarantee of satisfactory results. Specifically, this information is neither a warranty nor guarantee, expressed or implied, regarding performance; merchantability, fitness, or other matter with respect to the products; and recommendation for the use of the product/process information in conflict with any patent. Please note that Endress+Hauser reserves the right to change and/or improve the product design and specifications

Technical Data

General Information

Rated Current I_N

Rated Voltage U_N Rated Voltage U_N 150V DC (for/to DIN VDE 0110) 125V AC (for/to DIN VDE 0110)

Number of Poles Contact Resistance 8 mOhm

Environmental (Operating)

Temperature -40 to +185 °F (-40 to +85 °C)

0.0098 in. (0.25 mm)

0.0295 in. (0.75 mm)

Screw connection

General Properties

Combustability Class according to UL 94 HB Insulating Material PBT/PA

Contact Surface Material Contact Material CuSnZn NEMA 6P RATED (IP 67) Protection Class

Conductor Cross Section

Flexible Mininum Conductor Cross Section

Flexible Maximum Connection Manner Contact Resistance

8 mOhm 1,000,000,000,000 Insulation Resistance Testing Voltage 1.25 kV AC

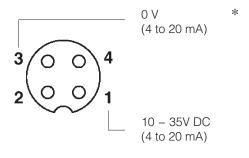
24

Conductor General Information

Conductor Cross Section* Conductor Cross Section

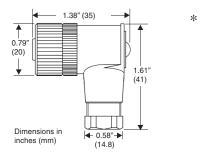
AWG/KCmil max. 18

*AWG/KCmil min.

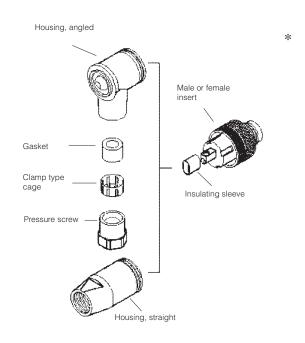




Dimensions



Schematic Diagram



^{*}Used with permission of Phoenix Contact GmbH & Co. KG.