TAKEX

BEAM HEATER PRH

Instruction Manual

PRODUCT DESCRIPTION

PBH Heaters for TAKEX Beams are an optional field modification / accessory for use in Northern Europe. They can be retro-fitted, or installed on sites where a build-up of frost on the beam cover is anticipated.

- 1) PBH Heaters are thermistors; their electrical resistance varies according to ambient temperature. As such, they act as a combined heater/ thermostat.
- 2) PBH heaters are sold in pairs; one unit for the beam transmitter, and one for the receiver.

Note: A separate range of heaters and thermostats is available for use in TAKEX Beam Towers.

SPECIFICATION

Voltage: 12-24VDC, non polarised. Current consumption at ambient temperature:

	20°C	0°C	-10°C	-25°C
12VDC	250mA	300mA	330mA	350mA
24VDC	200mA	220mA	250mA	280mA

PRECAUTIONS

Installation Tip / Initial Surge Current: if first connected to power in sub-zero temperatures, there can be an initial high surge current (800mA) which can overload the power supply until the thermistor reaches working temperature. Keep the thermistor warm with body heat (in a pocket, etc) and / or warm well in the hands until time for connection.

1 INSTALLATION

- 1) Ensure the power supply is sufficiently rated to power the beams and thermistor.
- 2) For TAKEX Twin Beams
 - a) Apply insulation tape to the rear of the Transmitter optics circuit board to protect the exposed circuitry, and to the aluminium circuit board cover on the rear of the Receiver optics, being careful not to disturb the beam alignment.
 - Connect the thermistor leads to the beam unit DC power terminals.
 - Locate the thermistor loosely behind the optics and replace the beam cover, taking care not to trap the thermistor leads or disturb the beam alignment.
 - Re-align beam according to instruction manual if neccessary
- 3) For TAKEX Quad Beams
 - Connect the thermistor leads to the beam unit DC power terminals.
 - Locate the thermistor loosely behind the lower optics unit and replace the beam cover, taking care not to trap the thermistor leads or disturb the beam alignment.
 - Re-align beam according to instruction manual if neccessary.

Limited Warranty:

TAKEX products are warranted to be free from defects in material and workmanship for 12 months from original date of shipment, Our warranty does not cover damage or 1 ALEA products are warranted to be tree from detects in material and workman, prof 12 months using find religious and of single control of the control of t



TAKENAKA ENGINEERING CO., LTD.

In Japan Takenaka Engineering Co., Ltd. 83-1, Gojo-sotokan, Higashino Yamashina-ku, Kyoto 607-8156, Japan Tel: 81-75-501-6651 Fax: 81-75-593-3816

http://www.takex-eng.co.jp

In the U.S.

Takex America Inc. 3350 Montgomery Drive, Santa Clare, CA 95054, U.S.A. Tel: 408-747-0100 Fax: 408-734-1100 http://www.takex.com

In Austrelia Takex America inc. Unit 16/35 Garden Road, Clayten, 3168 Victoria, Australia Tal: 03-9546-0533 Fax: 03-9547-9450

Takex America inc Brisbane office: 1/50 Logan Road, Woolloongabba Queensland 4102, Australia Tel: 07-3891-3344 Fax: 07-3891-3355 In the U. K.

Takex Europe Ltd.
Takex House, Aviary Court, Wade Road,
Basingstoke, Hampshire. R624 6PE,U.IC.
Tel: (1444) 01256-475555
Fax: (1444) 01256-466268 http://www.takeyeurone.com

