

ACTUATORS & DAMPERS

SOLID STATE TILT TRANSDUCER FOR DAMPER/VALVE POSITION FEEDBACK

TT-470 SERIES



DESCRIPTION

The **Kele TT-470 Series** solid state tilt transducer is a programmable, 2-wire, 4-20 mA loop-powered device specifically designed to provide positive feedback of damper or valve position to a building automation system. The transducer is quickly and easily field programmed, using an integral pushbutton, to span any shaft rotational range between 10° and 360° (one full rotation). The **TT-470** contains no mercury or other hazardous substances and meets or exceeds all current RoHS environmental standards. The transducer includes an integral crankarm style mounting bracket and is available in 2 models; the **TT-470** fits a 1/2" shaft and the **TT1-470** fits a 1" shaft. The transducer must be mounted on a horizontal shaft, typically a damper shaft or a globe valve linkage shaft (for example the Honeywell Q5020 linkage).



1

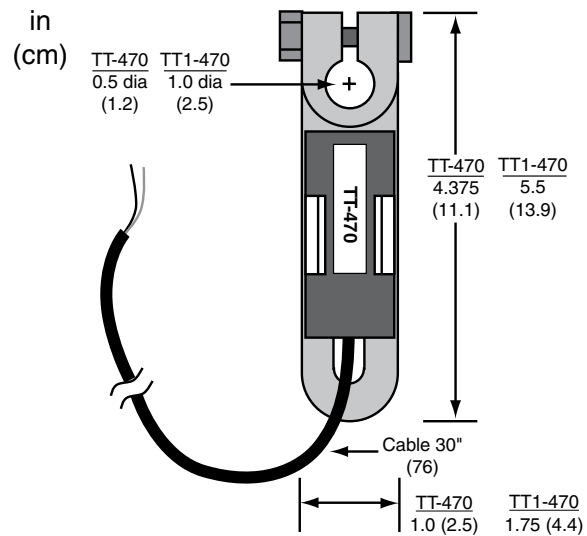
ACTUATORS & DAMPERS



TT-470

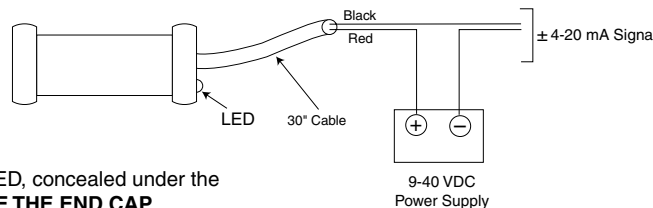
SPECIFICATIONS	
Supply Voltage	9 to 40 VDC
Wiring	30" plenum-rated cable, 2-conductor 16 AWG unshielded
Sensor Measurement Range	Programmable from ±10° to 360° rotation
Sensing Technology	Solid state orientation sensor
Signal Output	4-20 mA, 2-wire loop powered
Output Resolution	0.8 mA @ 90° rotation, 0.2 mA @ 360° rotation, ±0.1 mA
Maximum Output Impedance	1000Ω @ 24 VDC
Lamps	Red LED for programming
Operating Temperature	-20° to 150°F (-29° to 66°C)
Dimensions	
TT-470	1.4"H x 1.0"W x 4.4" L (3.4 x 2.5 x 11.1 cm)
TT1-470	1.4"H x 1.8"W x 5.5" L (3.4 x 4.4 x 13.9 cm)
Weight	
TT-470	0.5 lb (0.2 Kg)
TT1-470	0.8 lb (0.4 Kg)
Installation	
TT-470	1/2" round shaft
TT1-470	1" round shaft
Enclosure Rating	Indoors only, not suitable for outdoor installation
RoHS Statement	Yes
Warranty	1 year

DIMENSIONS



Note: Transducer must be oriented in the snap-in clip as shown in the drawing; the TT-470 text must be visible.

WIRING



Note: The calibration button is near the LED, concealed under the flexible plastic end cap. **DO NOT REMOVE THE END CAP.**

ORDERING INFORMATION

MODEL	DESCRIPTION
TT-470	Tilt transducer with 1/2-in crank arm
TT1-470	Tilt transducer with 1-in crank arm
RELATED PRODUCTS	
DCP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT