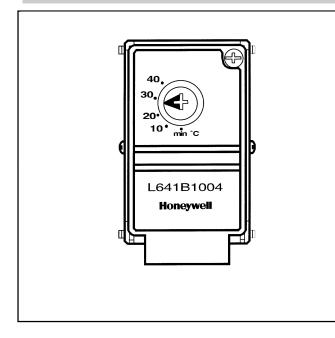
Honeywell

AutomatikCentret

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L641 SURFACE CONTACT THERMOSTAT

PRODUCT DATA



DESCRIPTION

The L641 is a surface contact thermostat designed to sense the water temperature in storage cylinders and water pipes, and to provide temperature control, temperature limiting, and temperature feedback functions.

L641A mounts directly onto domestic hot water cylinders and can be wired to directly switch a wet central heating circulating pump, or boiler, or to operate spring return and motor open/motor close zone valves.

L641B mounts directly onto a pipe and can provide high limit, low limit or frost protection in wet central heating systems or automatic summer/winter changeover in XE70 fan-coil control systems.

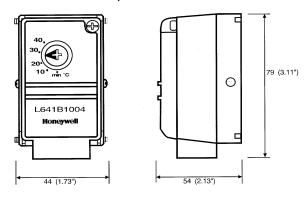
FEATURES

- Version available for use as a cylinder thermostat in domestic hot water installations
- Version available for use as a pipe thermostat in fancoil applications
- Version available for use as a pipe thermostat in frost protection applications
- Version available for use as a pipe thermostat to limit the supply water temperature in underfloor heating and solid fuel systems
- The S.P.D.T. switching action is accomplished by a snap-action MICRO SWITCH which is actuated by a bimetal temperature sensing element
- The desired temperature control point is set by the clearly scaled temperature selector on the front cover
- Wiring terminals are easily accessible
- Tamperproof temperature setting (L641B)
- Screwdriver slot temperature setting, with optional manual setting knob supplied (L641A)
- CE approved

SPECIFICATIONS

| Supply voltage | : 230 V~, 5060 Hz | |
|---------------------------------|--|-----|
| Switch action | : S.P.D.T. Type 1CL | |
| Switch rating | : 4(2) A, 230 V~ | |
| Temperature setting range | : see table | |
| Differential | : Approximately 10 K non-adjustable | |
| Surface temperature range | : 0 to 95°C | |
| Ambient temp. range | : 0 to 70°C | |
| Mounting | L641A mounts directly onto cylinder using fixing strap provided L641B mounts directly onto pipes using fixing springs provided | • |
| Dimensions | : 44 x 79 x 54mm (1.73" x 3.11" x 2.1 (w x h x d) | 3") |
| | | |
| Wiring | : 3 terminals with wiring clamps, accepting wires up to 1.5 mm ² | |

DIMENSIONS¹



Dimensions in millimetres (inches in brackets)

INSTALLATION

Mounting

The L641A cylinder thermostat should be mounted $^{1/4}$ to $^{1/3}$ of the way from the bottom of the domestic hot water cylinder after removing a section of the insulation and cleaning the surface.

The L641B pipe thermostat should be positioned less than 0.6 m (2') from the boiler, or on a supply pipe to a fan-coil unit, close to the 3-port control valve.

ORDERING SPECIFICATION

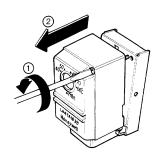
| Model | Application | Temperature Setting Range | |
|-----------|-------------------------------|------------------------------|--|
| L641Al039 | Cylinder Thermostat | Min, 40 to 80 ° C | |
| L641Bl004 | Low Limit Pipe Thermostat | Min, 10 to 40° C | |
| L641B1012 | High Limit Pipe Thermostat | 50 to 95°C | |

IMPORTANT

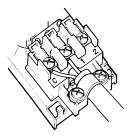
- 1. The installer must be a trained service engineer
- 2. Disconnect the power supply before beginning installation

Wiring

Cover removal



Wiring to terminals



APPLICATION

| | DHW Storage Tanks/ Cylinders (see note 1) | High Limit Underfloor Heating Systems (see note 2) | High Limit Solid Fuel Systems (see note 2) | Low Limit Frost Protection (see note 3) | Fan-Coil Unit Summer/ Winter Changeover for 2-pipe units (see note 4) |
|-----------|--|--|---|--|---|
| L641Al039 | • | | | | |
| L641Bl004 | | | | • | • |
| L641Bl012 | | • | • | | |

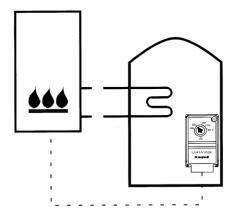
Notes

- The L641A should be mounted $^{1}/_{4}$ to $^{1}/_{3}$ of the way from the bottom of the cylinder. The L641B should be mounted less than 0.6 m (2') from the boiler. 1.
- 2.
- 3. The L641B should be mounted on the boiler return pipe and used in conjunction with the T4360A FrostStat.
- The L641B should be set to approx. 25° C and mounted on the supply pipe close to the 3-port control valve 4. such as to sense the water temperature even when the valve is closed.

Water Temperature Sensing and Control

D.H.W. Storage Cylinders and Tanks

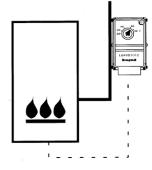
L641A1039



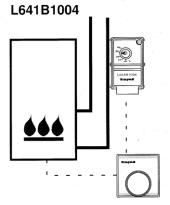
High Limit For Underfloor Heating For Solid Fuel Systems

Limit Control in Pipes

L641B1012

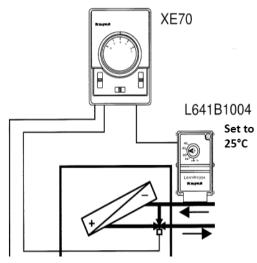


Low Limit For Frost Protection of Exposed Pipework

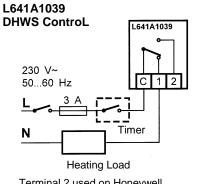


T4360A FrostStat

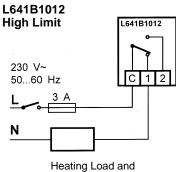
SUMMER / WINTER CHANGEOVER FOR 2-PIPE FAN-COIL UNITS



WIRING DIAGRAMS

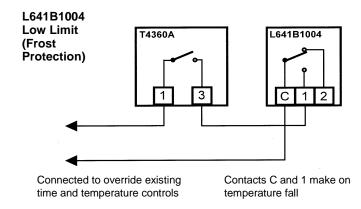


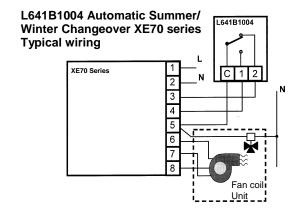
Terminal 2 used on Honeywell Y-Plan systems



existing controls

Contacts C and 1 break on temperature rise





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