

B6468

Keystart control panel for Perkins & Caterpillar engines



- **Compatible with non-ECU engines:**
Perkins 400 series
Caterpillar C1.1/C2.2
- **Keystart module for operator manual start/stop control**
- **Automatic fault shutdown protection and indication**
- **Hours run counter**
- **Integral wiring harness**

Description

Murphy panel B6468 provides operator-controlled start/stop, and automatic fault shutdown and indication for mechanical (non-ECU) engines. The integral wiring harness is configured for compatibility with Perkins 400 series and Caterpillar C1.1/C2.2 engines. The panels are primarily used in stationary engine applications such as pumps, crushers, shredders, etc.

Operator control is through a 3 position keyswitch on a Murphy Keystart module - see diagram overleaf for operation details. The key is common to all Keystarts and is removable only in the Stop/Reset (O) position.

Outputs are provided for the control of engine fuel, starter and preheaters. Automatic engine shutdown may be triggered by three inputs – oil pressure, coolant temperature and coolant level – designed for operation with engine-mounted switch contacts that close to negative DC during fault. A charge fail connection drives charge alternator excitation current and LED indication during fault conditions.

The B6468 is housed in a weather-resistant, Zintec steel case with black powder-coating. Electrical connection is through an integral harness with ring, blade and Deutsch connectors, for direct mating with Perkins 400 series and Caterpillar C1.1/C2.2 engines.

Product specifications

power supply:	
operating voltage: steady state	8 – 16 VDC
inputs:	
oil pressure, coolant temp & coolant level fault switches	closing to negative DC during fault
outputs: <i>(all ratings non-reactive)</i>	
run (fuel)	positive DC, switched NO relay contact, 10 A max. continuous @ 16V DC
start (crank)	positive DC via keyswitch contacts, 10 A max. continuous @ 16V DC
preheat	positive DC, switched NO relay contact, 20 A max. continuous @ 16V DC
general:	
case/finish	Zintec steel, 70 Micron black powder coat
operating temperature	–35°C to +55°C / –31°F to +131°F
overall dimensions (w x h x d)	210 x 130 x 160 mm
weight	3.6 Kg / 8.0 lb

Warranty

A two year limited warranty on materials and workmanship is given with this product. Full details are available at www.fwmurphy.co.uk/warranty

Keystart front view & operation

LED indication:-

run (fuel) on - green
preheat on - amber
low oil pressure fault shutdown - red
high engine temperature fault shutdown - red
overspeed/aux 2 fault fault shutdown - red
charge fail warning - red
aux 1 fault shutdown - red



3 position keyswitch:

- O Off/Reset.** Removes power, stops the engine and resets any latched shutdown fault.
- I Run.** Activates the Run output and (if enabled) the timed Preheat output. Once the engine is fully running, and after the 'override' time, Keystart immediately shuts down the engine on detection of a fault.
- II Start/crank.** Maintains the Run output, and activates the Start (crank) output. Shutdown fault inputs are disabled and the fault override timer is reset. This position spring-returns to I (Run) on release.

How to order

Stock code Model / description

B6468 Keystart + hourmeter control panel

Further information

Document Description

0810288 Keystart 9620 series sales bulletin
 00-02-0657 Keystart 9620 series installation
 00-02-0259 TM series hourmeter bulletin

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