



SIX START ATTEMPT RELAY IQ400M

SPECIFICATIONS

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CK: - 1998/012610/23
Revision : 1
Date : 2017**

The IQ400M is a specially designed relay for the Fire industry. When an ASIB (Automatic Sprinkler Inspection Bureau) approved controller is required for the diesel engine, this relay is used. In a fire sprinkler system application, 2 sets of batteries are required for the diesel engine (Backup), therefore equal shared cranking is required.

When power is applied to the IQ400M, battery No.1 relay output is energised for 15sec then de-energises. After a 7 second dwell (rest) period, battery No.2 relay output is energised for 15sec the de-energised.

The IQ400M now repeats the above cycle 3 times, hence the name "six start attempt". If after six starting attempts no "run" signal is received, which would in turn remove power to the IQ400M, a pump fail relay output is energised.

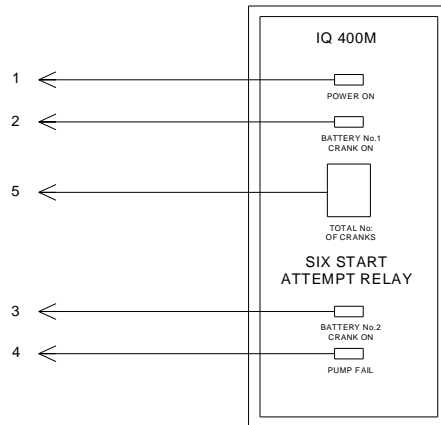
The IQ400m also has a Flip Flop function, whereby if powered up and the output relay to battery No.1 is energised as the first crank cycle, the next time the IQ400M is powered, it will start the first crank cycle on the output relay to battery No.2 and vice versa therefore the first crank cycle is always shared between each battery.

Features

- Multi voltage supply input.
- 1 Digit 7 segment display for indication of total crank cycles.
- LED's for indication of which battery set is cranking
- Led for pump fail indication
- ASIB approved.

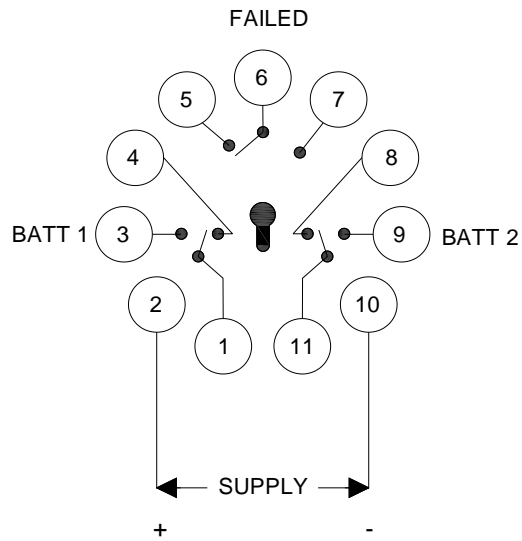
Six Start Attempt Relay Specifications	
Supply Voltage	12 → 24VDC +/- 10%
Power Consumption	60mA at 10 → 30VDC
Operating Temperature	55°C
Operating Humidity	0 → 90% RH, non-condensing
Relay Contact Rating	(SPDT) 1A at 125VAC resistive load (SPDT) 2A at 30VDC resistive load
Cranking Time	15 Sec
Dwell (rest) Time	7 Sec
Memory Backup	Non-volatile memory EEPROM
Terminals	11 Pin Plug in Module
Case Material	ABS Plastic

VISUAL INDICATORS AND BUTTONS



- 1) Green LED indicating that module is energised (Steady)
- 2) Red LED indicating that the relay output to battery set No.1 is energised (Steady)
- 3) Red LED indicating that the relay output to battery set No.2 is energised (Steady)
- 4) Yellow LED indicating that a full six start cranking cycle has been done, and that the pump fail relay output is energised.
- 5) 7 Segment Display showing the number of crank cycles already completed.

SIX START ATTEMPT RELAY IQ400M WIRING DIAGRAM



MECHANICAL DIMENSIONS

