

# KENCO NO-FLOW SAFETY SWITCH

## APPLICATION

The Kenco NO-FLOW SWITCH ("NFS") is designed to protect the engine and compressor cylinder(s) against lubrication failure.

## OPERATING PRINCIPLE

The Kenco "NFS" mounts in line between the lubricator and cylinder. On start up, the first stroke of the lubricator automatically opens the "NFS" switch contact. The contact is opened and closed by the precision-fit plunger inside the "NFS" body. Lubricator oil flows through the body with the rate of flow controlled by the amount of oil that passes between the precision-fit plunger and the bore inside the body. If the lubricator stops pumping, the precision-fit plunger will drift back against the switch contact and stop the engine. The time interval between lubrication failure and shut down can be adjusted by increasing or decreasing the compression on the precision-fit plunger spring.

The "NFS" is available with an overpressure rupture assembly which will instantaneously bleed off and stop the engine in the event the lube line check valve plugs.

## SPECIFICATIONS

Switch Contact Electrical Rating: 2 amps, 30 VAC or VDC

Switch Contact Circuitry: Case-To-Ground

Flow Rates Required to Open Switch Contact:

- 6 drops per minute or more when using standard plunger spring
- Between 3 and 6 drops per minute when using optional light plunger spring "L" (See ordering note below)

Maximum Recommended Working Pressures:

- NFS-3, NFS-4, NFS-5, NFS-30: 2,000 psig
- NFS-6, NFS-11: 4,000 psig
- NFS-7, NFS-9, NFS-25: 1,750 psig (Consult factory for other available rupture pressure settings)

## MODELS AVAILABLE

- NFS-3 Switch terminal without conduit connection; no mounting bracket
- NFS-4 Switch terminal without conduit connection; mounting bracket for Ajax
- NFS-5 Switch terminal without conduit connection; mounting bracket for large Ajax (3 switches on one bracket)
- NFS-6 Switch terminal with 1/2" NPT conduit connection; no mounting bracket
- NFS-7 Switch terminal without conduit connection; no mounting bracket; overpressure rupture assembly
- NFS-9 Switch terminal without conduit connection; mounting bracket for Ajax; overpressure rupture assembly
- NFS-11 Switch terminal with 1/2" NPT conduit connection; no mounting bracket; no inlet or outlet tubing connectors
- NFS-25 Switch terminal with 1/2" NPT conduit connection; no mounting bracket; overpressure rupture assembly
- NFS-30 Switch terminal without conduit connection; no mounting bracket; 90° inlet and outlet tubing connectors

Ordering Note: Add "L" to end of model number for light spring option.

## TECHNICAL DRAWING - MODEL NFS-6

- Dimensions are for reference purposes only and are subject to change at any time without notice.
- Visit the Kenco website at "www.kenco-eng.com" for drawings of other standard models available.

