PRODUCT DESCRIPTION

DESCRIPTION  The WM 81 series consists of non-grounded switches that respond to a drop of air pressure below a preset level. The WM 81 switches feature an adjustment that allows the actuation setting to be modified. The switches are shipped from the factory with this setting preadjusted to 50-60 PSI (344.7-413.7 kPa). When the pressure drops below the preset value, these switches activate a light or buzzer to indicate that a low pressure condition exists.

OPERATION  When the control pressure exceeds the preset level, a diaphragm in the switch holds the contacts in the open position. If the pressure decreases below this level, the diaphragm is spring-returned and the contacts close. A customer-supplied light or buzzer warns the operator of the low pressure condition.

APPLICATION  The WM 81 series single-pole, single-throw switches are commonly installed as signal devices in pneumatic braking systems. Designed for low voltage (6-24 VDC), low amperage applications, these switches are frequently used to activate a warning light or buzzer when a low pressure condition exists in the vehicle’s air brake system. The WM 81 series is not UL approved.

TYPICAL INSTALLATION

EXTERNAL CONFIGURATION

CONTROL 1/8-27 NPTF

WM81 LOW PRESSURE SWITCH

GROUND
AIR LINE
IGNITION
WARNING LIGHT

FUNCTIONAL DIAGRAM

CONTROL PRESSURE BELOW PREADJUSTED SETTING

CONTROL PRESSURE ABOVE PREADJUSTED SETTING

I.S.O. SYMBOL
SPECIFICATIONS

PORT SIZE ........................................... 1/8-27 NPTF
MAXIMUM OPERATING PRESSURE ........... 150 PSI (1034,2 kPa)
OPERATING TEMPERATURE* ....... -20°F to 200°F (-28,9°C to 93,3°C)
ADJUSTABLE PRESSURE RANGE ....... 20-30 PSI (137,9-206,8 kPa)
  to 120-130 PSI (827,4-896,3 kPa)
PRESET PRESSURE TO OPEN CONTACTS .. 50-60 PSI (344,7-413,7 kPa)
MOUNTING . . . Pipe Mtg, or Bracket Secured to Frame, Bulkhead, or Bracket
MOUNTING ATTITUDE .................. Optional
MATERIALS: Body Castings ......................... Die Cast Zinc Alloy
Terminals, Contacts, & Contact Plate . . Silver-Plated Brass
Diaphragm ......................... Fabric-Reinforced Buna N
NET WEIGHT .......................... 8.0 oz. (0,2 kg)

*For continuous operation beyond this range, contact factory.

TO ORDER, SPECIFY

WM81
Model Number
PART NUMBER 111237

PARTS IDENTIFICATION

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This component is classified as a non-repairable item.