



WARREN MORRISON UK LTD



SWITCH BOX L SERIES

Warren-Morrison Valves

Established in 1949 in the United Kingdom, Warren-Morrison UK Ltd. has been manufacturing its own unique range of industrial valves and actuators for over 55 years. Benefiting from our own internal rubber mould department, machine shop and development and test facilities, we maintain total control over production and quality through continuous 'in process inspection'. Our dedication towards future development has continued to ensure our market position as a select industrial valve and accessories manufacturer and supplier.

Warren-Morrison Limit Switch Box

The Warren-Morrison L Series IP67 limit switch boxes are designed to provide local and remote position indicator of valves and actuators. The L Series products are designed to integrate valves with rotary or linear pneumatic actuators or with gearboxes in a variety of mounting options. Designed with ease of use in mind yet rugged and reliable for extended use, the switch boxes have epoxy coatings and fully meet IP67 specifications. The mounting is designed to suit ISO 5211 and NAMUR standards for ease of mounting to various actuators and gearboxes.

Limit Switch Box Features:

- Rigid aluminium body material with epoxy coating.
- Enclosure ratings to IP67 / NEMA 4 / NEMA 4X as standard.
- Various limit switch options (Mechanical SPDT/DPDT & Inductive Proximity).
- Cable entry options to suit international standards (M20 x 1.5 / ½" NPT/ ½" BSPP).
- Wide temperature range to suit most environments.
- Different operating voltages to suit most systems.
- Possible to terminate a solenoid valve connection within the switch box.
- Options available for rotary and linear actuators.

Overview

Powder epoxy coating for long term protection

Clear OPEN and CLOSE indication



Wiring diagram inside the lid

Cable glands available in DIN or BS standards



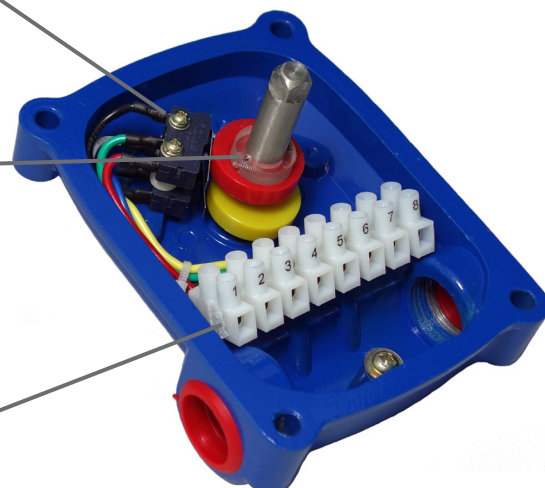
Complete o-ring seal between lid and body

Captive lid bolts will not fall out when unscrewed

Adjustable cams for switch engagement

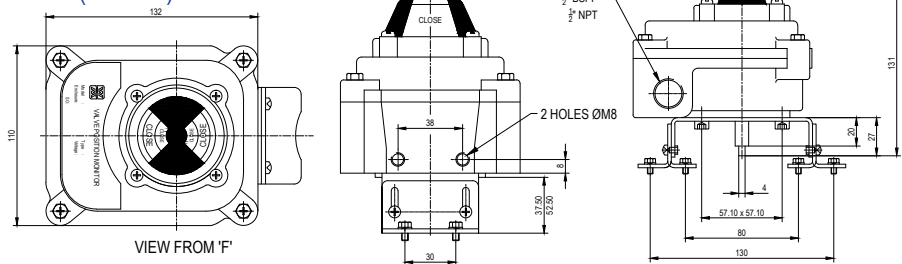
Mechanical or Proximity switches available

Customer terminal strip angled for easy access



GAD LDO2-XR

Mechanical Switch (DPDT)



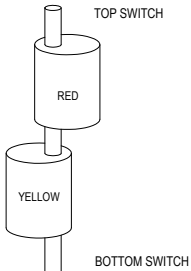
GROUNDING SCHEMATICS



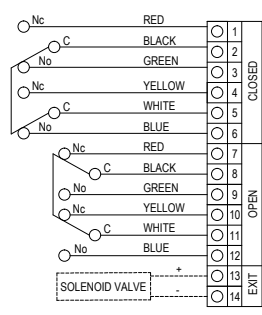
RATING

VOLTAGE	CURRENT
125-250 VAC	15A
24 VDC	12A
48 VDC	3A

DPDT LIMIT SWITCHES

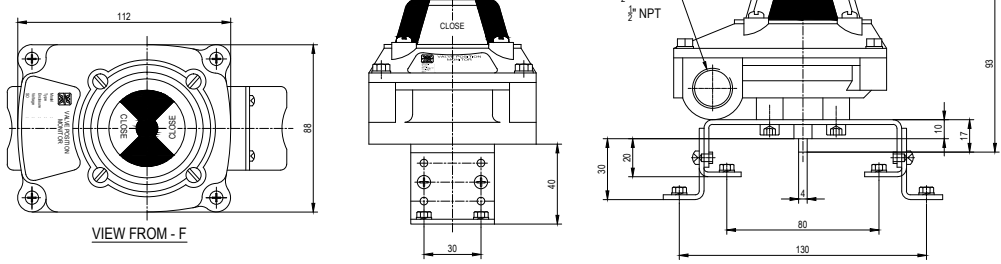


WIRING DIAGRAM



GAD LPX2-XR

Proximity Switch



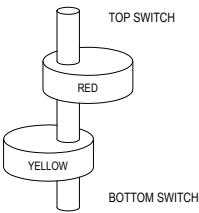
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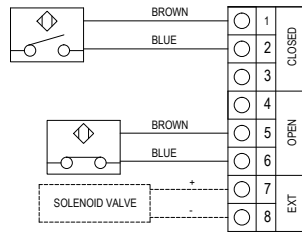
RATING

MODEL	VOLTAGE	CURRENT
LPA2 - XX	5-60 VDC	4-100 mA
LPB2 - XX	10-30 VDC	100 mA
LPC2 - XX	8.2 VDC	<= 1 mA

PROXIMITY SWITCHES

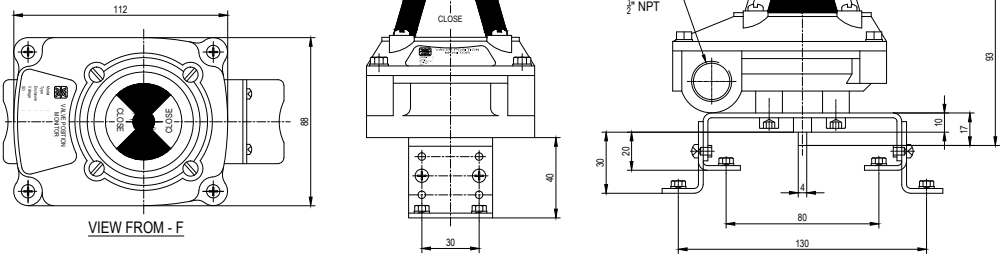


WIRING DIAGRAM



GAD LSO2-XR

Mechanical Switch (SPDT)



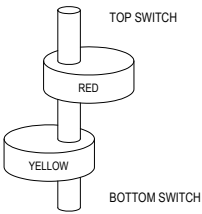
GROUNDING SCHEMATICS



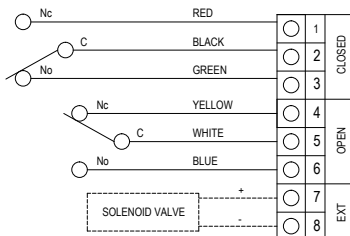
RATING

VOLTAGE	CURRENT
125-250 VAC	5A
24 VDC	5A
48 VDC	3A

SPDT LIMIT SWITCHES



WIRING DIAGRAM



Model Numbering System for WM Valve Position Monitor

Series	Type of Switch	Options	No of Switches	-	Cable Entry	Type of Actuator
L Limit Switch Box	D DPDT	A P+F NBB3-V3-Z4	1 1	B	1/2" BSPP	L Linear
	P Proximity Inductive	B P+F NBB2-V3-E2 PNP NO	2 2	M	M20 X 1.5	R Rotary
	S SPDT	C P+F NCB2-V3-N0		N	1/2" NPT	
		O Null				
		X Special				

Specifications and Technical data

Model	LSO2-XX	LPX2-XX	LDO2-XX
Type	Honeywell Mechanical Switches (2 X SPDT)	Pepperl+Fuchs (2 X Inductive Proximity)	Crouzet Mechanical Switches (2 X DPDT)
Operating Voltage	Max: 5A, 125-250 VAC	NBB3-V3-Z4, 2 wire (5-60 VDC, 4-100mA)	Max: 16A, 125-250 VAC
	Max: 5A, 24 VDC	NBB2-V3-E2 PNP NO, 3 wire (10-30 VDC, 100mA)	Max: 12A, 24 VDC
	Max: 3A, 48 VDC	NCB2-V3-N0, 2 wire (8.2 VDC, <=1 mA)	Max: 3A, 48 VDC
Enclosure Material	Die-cast aluminum with polyester powder coating: O-ring sealed	Die-cast aluminum with polyester powder coating: O-ring sealed	Die-cast aluminum with polyester powder coating: O-ring sealed
Electrical Enclosure	Type NEMA 4, 4X, IP67	Type NEMA 4, 4X, IP67	Type NEMA 4, 4X, IP67
Ambient Temperature	-25°C to +85°C	-25°C to +85°C	-25°C to +85°C
O-Rings	Buna N	Buna N	Buna N
Fasteners	Stainless Steel	Stainless Steel	Stainless Steel
Shaft	Stainless Steel Namur	Stainless Steel Namur	Stainless Steel Namur
Conduit Entries	2 X M20 X 1.5 Also available with 2 X 1/2" NPT or 2 X 1/2" BSPP	2 X M20 X 1.5 Also available with 2 X 1/2" NPT or 2 X 1/2" BSPP	2 X M20 X 1.5 Also available with 2 X 1/2" NPT or 2 X 1/2" BSPP
Terminal Strips	8	8	14
Mouting Bracket	According to VDI/ VDE 3845 Dim: 30 x 80, 30 x 130 Height:20, 30 Material :SS 304	According to VDI/ VDE 3845 Dim: 30 x 80, 30 x 130 Height:20, 30 Material :SS 304	According to VDI/ VDE 3845 Dim: 30 x 80, 30 x 130 Height:20, 30 Material :SS 304

Switchbox on linear actuator



Switchbox on gearbox



Close-up on linear actuator



Switchbox on quarter turn actuator





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