LIMIT SWITCH BOX

Description
Max-Air Technology series of switchboxes represent a completely new dimension in switchboxes for actuators. Manufactured completely in techno-polymer with stainless steel fasteners and Nema 4, 4x rating, these products are corrosion resistant and suitable for the most corrosive environments.

Compact Design
MAX-AIR Switch Box has a compact construction, minimizing valve package envelope size.

Inclusive Mounting Bracket
A techno-polymer mounting bracket is supplied as standard with MAX-AIR Switch Box and it fits the NAMUR top-mounting hole spacing 80 mm per 30mm. The bracket allows the use of standard NAMUR stem height 30 mm and also 20 mm with a coupling included in the standard kit.

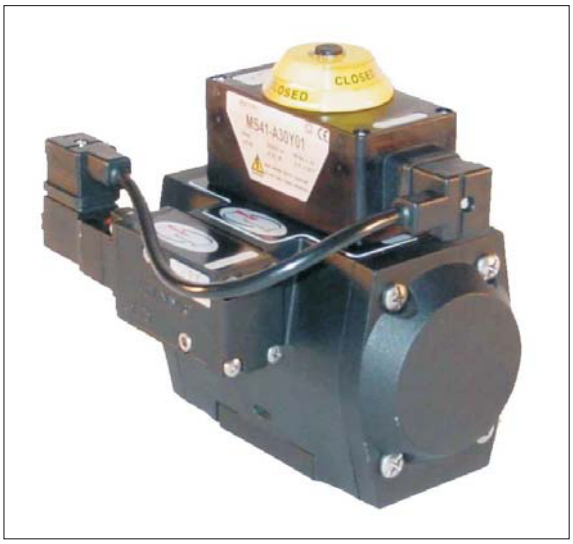
High Visibility Indicator
Our Tri-dimensional indicator offers clear location of the current valve position for 90° - 120° - 135° - 150° - 180° angle.

Versions
MAX-AIR Switch Box is offered with 2 mechanical micro switches or different types of proximity sensors.

Features

Quick Set Cams
The operating position of the switches can be easily changed by manually adjusting the high resolution spline cams. The cams are spring backed and will not be affected by normal vibration.

Easy wiring
Despite its compact design, MAX-AIR switch boxes are easy to wire up with plenty of room to bring wires into the enclosure. As standard, they have two conduit entries ½" NPT. MAX-AIR switch boxes are equipped with 2 different removable strips as standard, the first one with 8 terminal points and the second one with 2 points; therefore, dual coil solenoid valves can be connected. The terminal strips are angled to allow for ease in attaching external wires.



QSM Incorporated

LIMIT SWITCH BOX

TRU-FLO Valves & Automation

SPDT Mechanical Switches
with 8 Point Terminal Strip on a **printed circuit board**

Technical Data

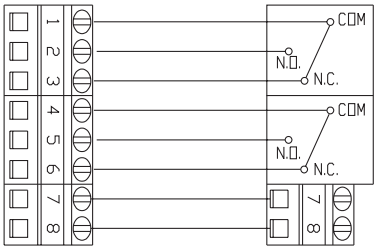
Operating Force	0.60 N (61 Gram Max)
Release Force	0.06 N (6 Gram Max)
Differential Travel	4.8 mm
Overtravel	0.8 mm

Electrical Rating

Contact Arrangement: SPDT (Form C)

Rated Voltage	Resistive Load	Inductive Load
125 VAC	5 Amp	3 Amp
250 VAC	3 Amp	2 Amp
8 VDC	5 Amp	5 Amp
14 VDC	5 Amp	4 Amp
30 VDC	4 Amp	3 Amp
125 VDC	0.4 Amp	0.4 Amp
250 VDC	0.2 Amp	0.2 Amp

Wiring diagram



Switch # 1
UP-Open

Switch # 2
Under-Closed

Additional
Solenoid Vallve

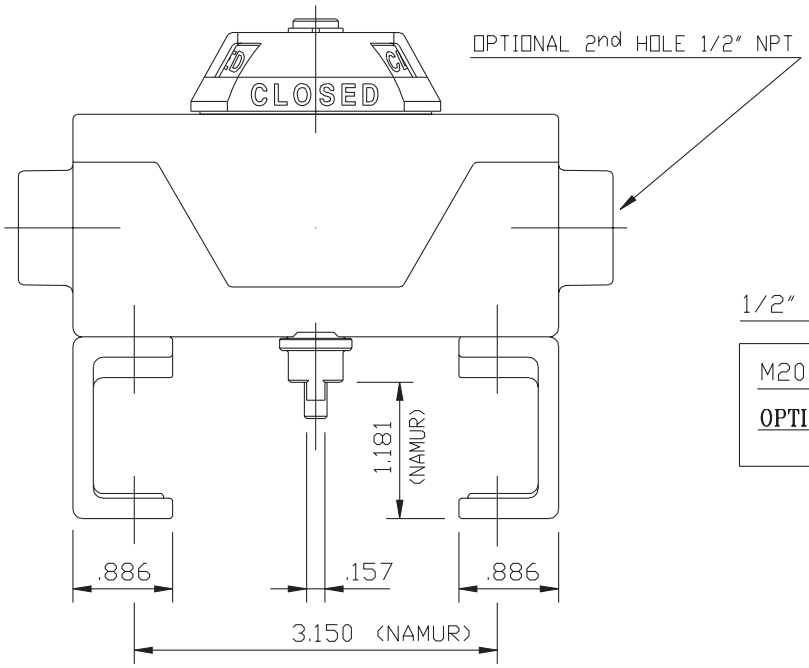
Materials

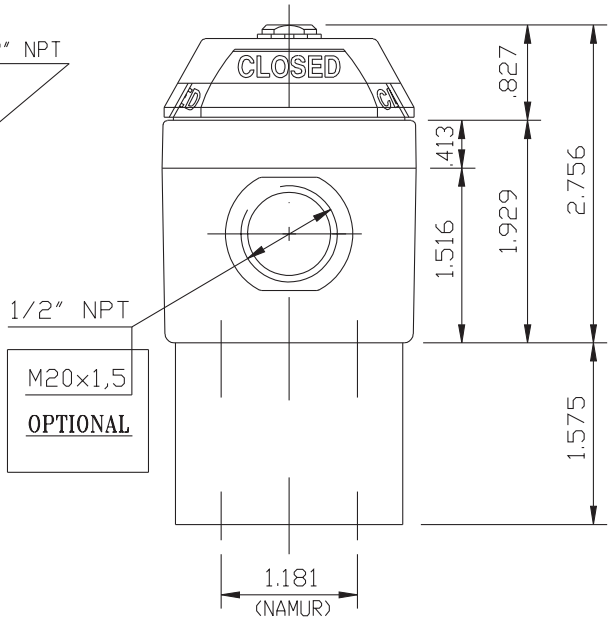
Box:	Technopolymer
Brackets:	Technopolymer
Position Indicator:	Technopolymer
Fasteners:	Stainless Steel
Seals:	Buna-N
Operating Shafts:	Technopolymer
Cams:	Technopolymer
Microswitches:	Technopolymer
Electrical Board with Clamps:	Polyamide

Inductive Proximity Sensors

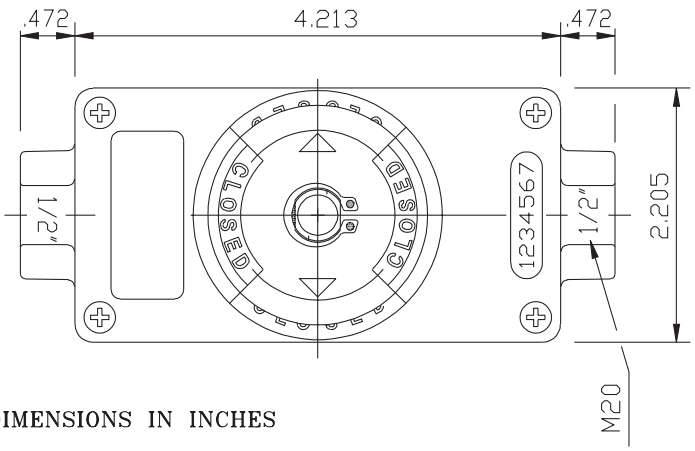
Nominal voltage [V]	8
Current consumption	
Sensing face covered [mA]	1
Sensing face free [mA]	3
Switching frequency [Hz]	1000
Self inductance [mH]	50
Self capacitance [nF]	35
Protection	IP67
Operating Temperature [°C]	-25…100

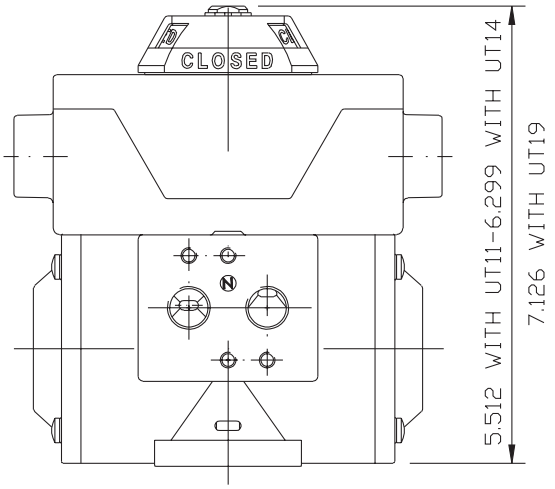
LIMIT SWITCH BOX





DIRECT ASSEMBLY WITH UT11/14/19





DIMENSIONS IN INCHES

STANDARD MATERIALS

BOX : Techno-polymer

BRACKETS : Techno-polymer

POSITION INDICATOR : Techno-polymer

ALL SCREWS : Stainless steel AISI 304

SEAL : Nitrilic rubber NBR

OPERATING SHAFTS : Techno-polymer

SEPARATELY ADJUSTABLE CAMS : Techno-polymer

MICROSWITCHES : Polyamide

ELECTRICAL BOARD WITH CLAMPS : Polyamide

TEMPERATURE

STANDARD - 4°F + 158°F

PROTECTION DEGREE

NEMA 4, 4X

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