



LIMIT SWITCH BOX WITH DIRECT MOUNT FEATURE

DESCRIPTION

The MAX-AIR Technology MS41-2 Limit Switch Box represents a new dimension in position indication for rotary actuators. Manufactured completely in technopolymer 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 technopolymer mounting bracket is supplied as standard and fits NAMUR top-mounting hole spacing 80 mm x 30 mm. The bracket allows the use of standard NAMUR stem height of 30 mm, and also 20 mm with a coupling included in the standard kit.

High Visibility Indicator

Our high visibility indicator offers clear location of the current valve position for 90° - 120° - 135° - 150° - 180° angle.

Versions

Offered with 2 mechanical micro switches or different types of proximity sensors.

FEATURES

Quick Set Cams

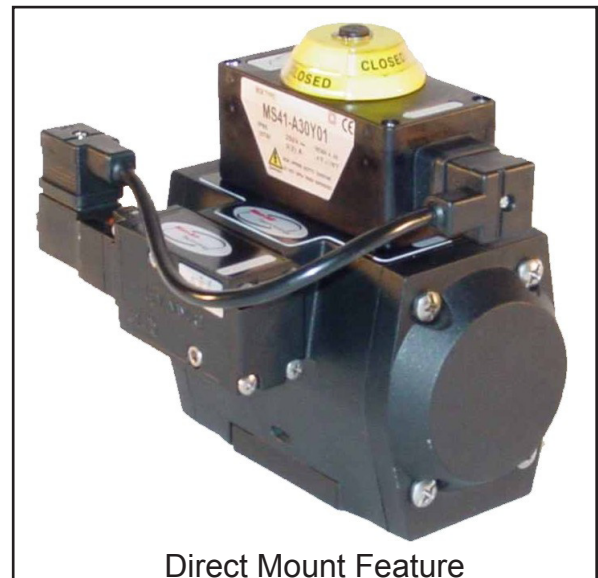
The operating position of the switches can be easily changed by manually adjusting the high-resolution spline cams. The cams are spring backed and will not be affected by normal vibration.

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 1/2" NPT conduit entries. MAX-AIR switch boxes are equipped with 2 different removable terminal strips as standard, the first one with 8 terminal points and the second one with 2 points allowing dual coil solenoid valves to be connected. The terminal strips are angled to allow for ease in attaching external wires.



CSA approved to Classes 3211 06 and 3211 86 for Industrial Controls Equipment. Testing conducted according to the applicable sections of CAN/CSA C22/2. ANSI/UL 508 and ANSI/UL 50.



Direct Mount Feature

Max-Air TECHNOLOGY INC.

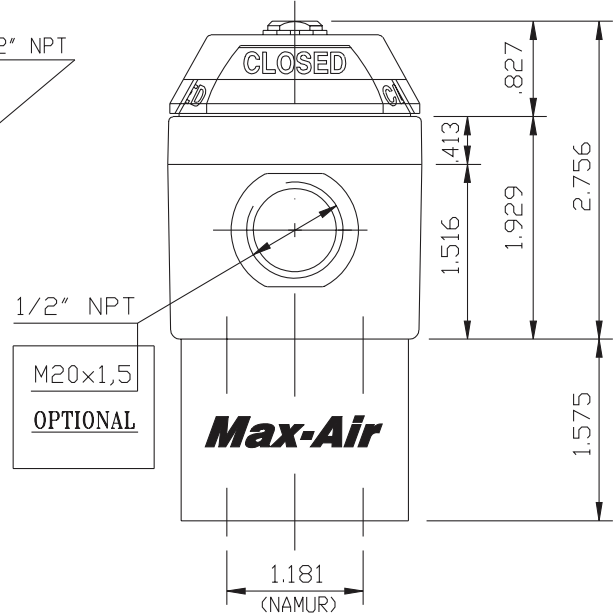
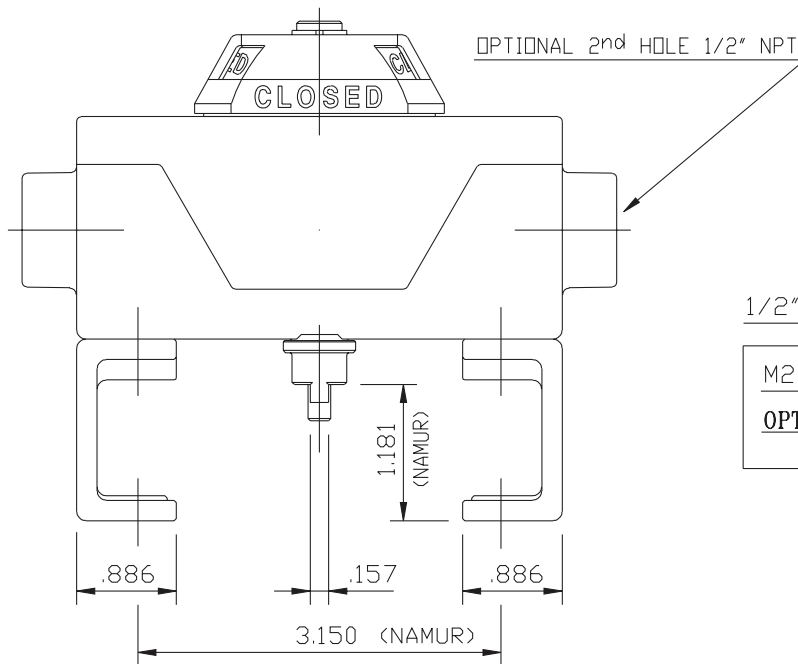
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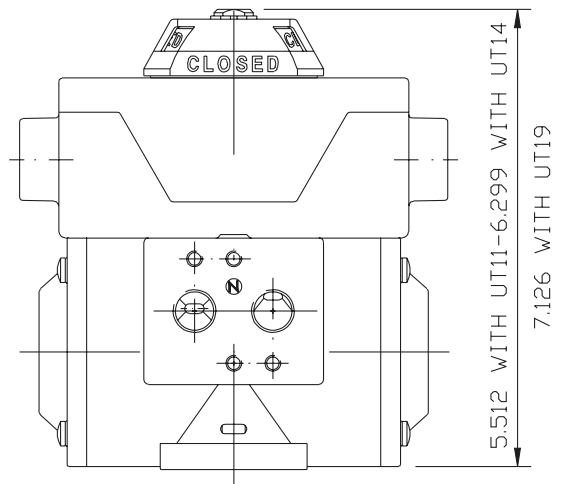
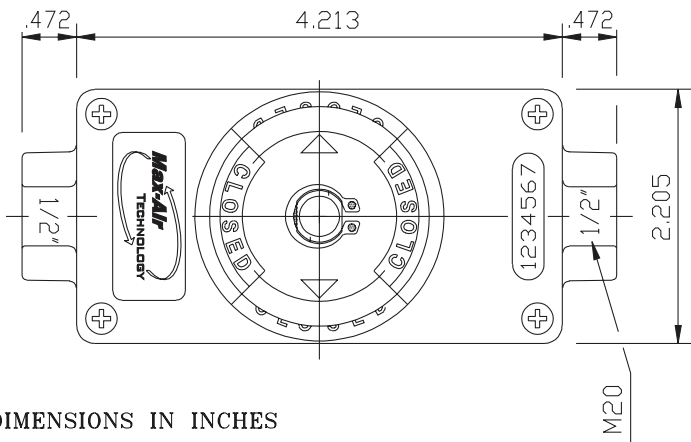
MS-41-2



LIMIT SWITCH BOX
TECHNICAL DATA



DIRECT ASSEMBLY WITH UT11/14/19



DIMENSIONS IN INCHES

STANDARD MATERIALS

- | | |
|---------------------------------------|--|
| BOX : Technopolymer | OPERATING SHAFTS : Technopolymer |
| BRACKETS : Technopolymer | SEPARATELY ADJUSTABLE CAMS : Technopolymer |
| POSITION INDICATOR : Technopolymer | MICROSWITCHES : Polyamide |
| ALL SCREWS : Stainless Steel AISI 304 | ELECTRICAL BOARD WITH CLAMPS : Polyamide |
| SEAL : Nitrile Rubber NBR | |

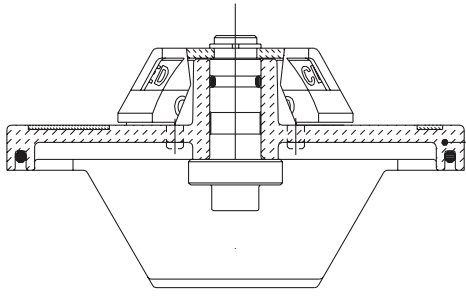
TEMPERATURE

STANDARD - 4°F + 176°F

PROTECTION DEGREE

NEMA 4/4x
IP65

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COVER KIT



FASTENING SCREW



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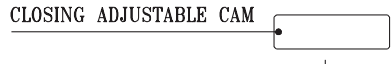


OPENING ADJUSTABLE CAM

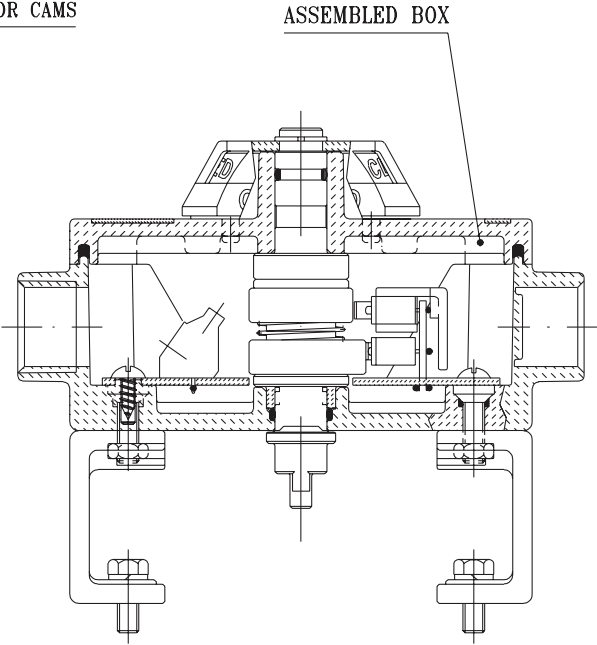
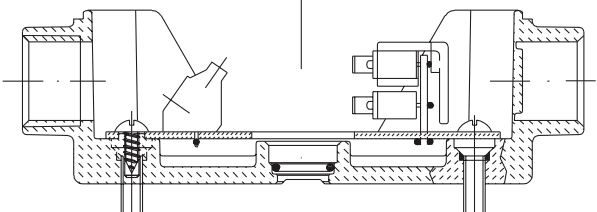


SPRING

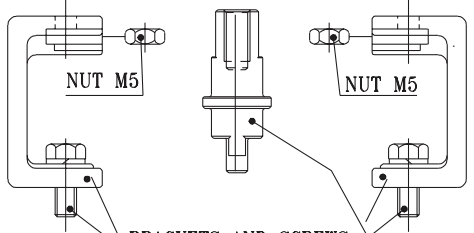
MULTI-SPLINE SUPPORTS FOR CAMS



CLOSING ADJUSTABLE CAM



ASSEMBLED BOX



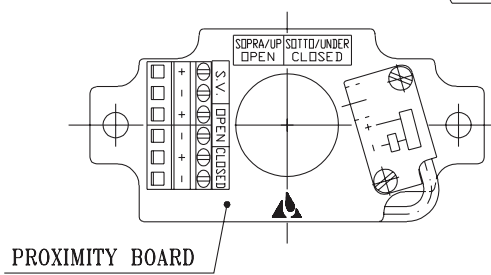
NUT M5

NUT M5

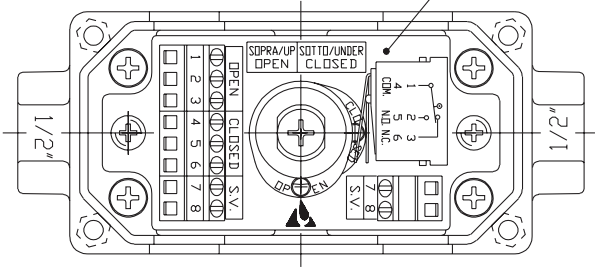
BRACKETS AND SCREWS

DRIVE SHAFT

ELECTRICAL BOARD WITH MICROSWITCHES



PROXIMITY BOARD



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LIMIT SWITCH BOX WITH DIRECT MOUNT FEATURE

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

SPDT MECHANICAL SWITCHES

with 8 Point Terminal Strip on a printed circuit board



ELECTRICAL RATING

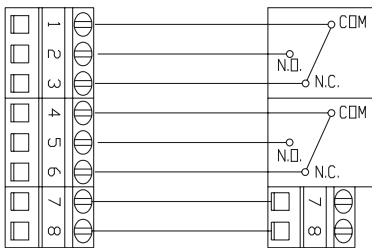
Contact Arrangement: SPDT (Form C)

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

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

WIRING DIAGRAM



Switch #1
Up-Open

Switch #2
Under-Closed

Additional
Solenoid Valve

INDUCTIVE PROXIMITY SENSORS

Normal voltage [V]	8
Current consumption	N/A
Sensing face covered [mA]	1
Sensing face free [mA]	3
Switching frequency [Hz]	1000
Self inductance [mH]	50
Self capacitance [nF]	35
Protection	IP65
Operating Temperature [°C]	-25 – 100

