

CAB SERIES LIMIT SWITCH BOX

The MASTERGEAR CAB series limit switch box provides a compact design and cost effective solution for both visual and remote electrical indication of rotary valve/actuator position. The large 3D rotor provides highly visible confirmation of valve/actuator position. The wide variety of options make the CAB series the ideal multi-purpose limit switch for use in NEMA 4, 4X general purpose applications. Hermetically sealed and solid state switch options also make the CAB series suitable for use in intrinsically safe applications and Class I & II Division 2 Groups A, B, C, D, F & G hazardous applications.

ALUMINUM HOUSING

Is UL and CUL listed. The dichromated die cast aluminium base is polyester powder coated internally and externally. The stainless steel shaft and V0 and VU resistant polycarbonate cover make this unit ideal for use in hostile corrosive environments. The housing has stainless captive cover screws to permit calibration without potential for losing screws.

COMPACT BODY DESIGN

Ideal for use on all size actuators including very small units

HIGH VISIBILITY 3D POSITION INDICATOR

CAB series is provided with an integral two color 3D position indicator; it is easy to confirm valve position both looking from the top or side of the valve. Indicator is mounted on a splined retainer in order to be finely and easily adjusted to coincide with the exact valve position.

PRE-WIRED PCB MODULES

Switches are factory wired to Printed Circuit Board (PCB) to simplify installation and maintenance. Each PCB terminal strip includes two spare terminals to accommodate an optional solenoid valve. This feature provides a significant cost saving by eliminating the need for a separate junction box and associated labor.

“EASY-SET” CAMS

Easy-Set cams are splined, spring loaded and independently adjustable. This design offers tool free calibration and positive vibration resistant engagement.

SWITCH OPTIONS

CAB series can be provided with different types of switches: SPDT or DPDT electromechanical silver plated or gold plated contacts; cylindrical, V3 or slot type inductive proximity NPN or PNP; SPDT or DPDT magnetic proximity; NAMUR proximity switches for intrinsically safe applications. AS-i digital communication interface card, 3-position dribble control, 2 wire 4-20mA current position transmitter and pneumatic 3 way valves. An anti-condensation 24V resistor is available on request.

STANDARDIZED MOUNTING

Housing conforms to international dimensional standards with NAMUR VDI/VDE3845 output shaft dimensions and ISO F05 bolt hole locations. This maximizes interchangeability plus reduces cost by eliminating need for switch/actuator couplers. A complete range of stainless steel mounting kits to fit CAB both on pneumatic actuators and on lever operated valves are available.

SST SHAFT MOUNTED ON BEARINGS

No metal to metal contact between body and rotating shaft warrants a very low torque.



MATERIALS

Body	: die cast, dichromated and polyester powder coated aluminium
Cover	: UV resistant and V0 polycarbonate
Shaft	: stainless steel
Fasteners	: stainless steel

RATINGS

Temperature range: standard +32°F (0°C) +176°F (+80°C)
Temp. range may vary due to switch range
Low temp. and high temp. execution available on request
Electrical: according to switch option
Consult "B02003-3-E" bulletin for switch rating



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CAB SERIES LIMIT SWITCH BOX

ORDERING GUIDE

CA B 01 2 0 0 E

cable entry E two 1/2" npt

color 0 black

terminal strip 0 standard circuit board strip
1 standard AS-i terminal
2 connections

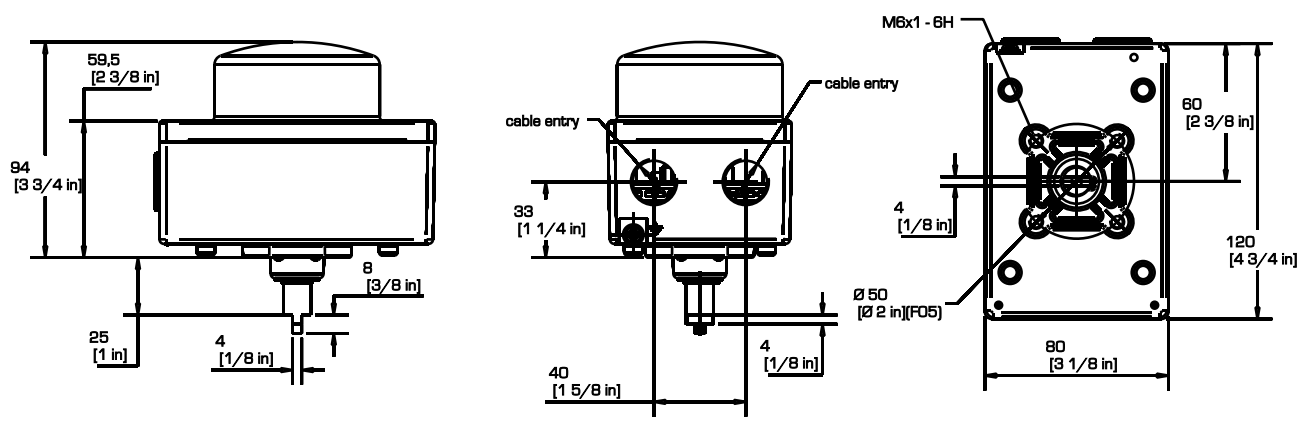
switch quantity 1 to 4 according switch

SWITCH APPROVALS
MECHANICAL SWITCHES
Are suitable for general purpose applications. Gold plated versions can also be used on intrinsically safe applications.
MAGNETIC PROXIMITY SWITCHES
Are suitable for intrinsically safe applications and also hazardous locations CLASS I & II DIVISION 2 GROUPS A, B, C, D, F & G

switch type	rating	max qty. installed
01 electromech SPDT silver plated contacts	5A@250VAC, 0.5A@24VDC, resistive/inductive	3
03 electromech SPDT gold plated contacts	0.1A@120VAC resistive	3
05 electromech DPDT silver plated contacts	5A@250VAC, 1/4HP@125VAC, resistive/inductive	3
10 proximity SPST	0.25A@120VAC, 0.7A@42VAC, resistive	3
13 proximity SPST, Bifurcated	1.5A@120VAC, 0.55A@24VDC, resistive/inductive	3
14 proximity SPDT (standard)	0.25A@120VAC, 0.416A@48VDC, resistive	3
16 proximity DPDT	0.25A@120VAC, 0.416A@48VDC, resistive	3
70 proximity NAMUR P+F NJ2-V3-N	NAMUR 2 wire, supply voltage 8VDC	2
71 proximity NO P+F NBB2-V3-US	2 wire, 5 to 200mA, 20 to 140 volts (AC or DC)	2
73 proximity NO PNP P+F NBB3-V3-E2	3 wire, PNP, 5 to 100mA @ 30VDC, Amplified	2
AS AS-interface	two inputs plus one 100mA output	1
TA transmitter plus two mechanical SPDT switches	4-20mA output, 9-30VDC plus switch rated same as type 01	1
TX transmitter only	4-20mA output, 9-30VDC	1

indicator B 3D indicator
L three-way 3D indicator (L port)
T three-way 3D indicator (T port)

DIMENSION mm - inch



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