

iNSiGHT

iNSiGHT is a product to replace troublesome reed switches by using exciting new proprietary technology called:

Quantum Volumetric Light Absorption (QVLA).

QVLA is a precise, repeatable and long lasting measurement system working on a simple principle but achieved only with optical quality components and NON-LASER LIGHT. By accurate measurement of the intensity of light within a bore, the amount of exposed cylinder wall can be calculated. By moving the piston within the bore and calculating the difference in exposed cylinder wall, piston position is known.

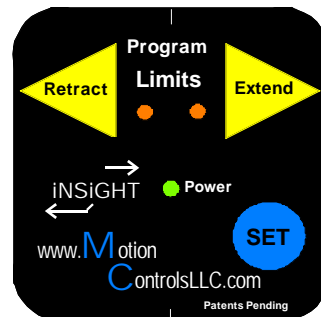
iNSiGHT offers a replacement for reed switches with ease in set-up and use providing identical electronic outputs but with greater precision. It is useful as a reed switch substitute or end of stroke sensor because it is unlike traditional switches which can be run over with speed. **iNSiGHT** establishes "end zones;" once a position is tripped an "end zone" of switched electrical signal is established.

iNSiGHT has no magnets or coils, extremely low electrical noise and is inherently weld field immune. It works with steel, aluminum, or composite structures.

iNSiGHT is set-up by a permanently attached key pad on the outside of the cylinder. The electronics are embedded within an additional end cap (the only dimensional difference from standard) on our non-NFPA "D" Series format 1 1/4", 2", and 2 1/2" bore cylinders and our NFPA "K" Series 1 1/2", 2", 2 1/2" bore cylinders. All typical mountings available. 9 foot cable standard.

MORE ECONOMICAL,
GREATER RESOLUTION,
EXTREMELY LONG LIFE.

FAST
15 SECOND
SET-UP.
NO TOOLS
REQUIRED!



ACTUAL
KEYPAD
SIZE

SET-UP DIRECTIONS

- 1) PRESS AND HOLD FOR 2 SECONDS THE YELLOW BUTTON CORRESPONDING TO THE POSITION DESIRED, EITHER: "EXTEND" OR "RETRACT."
- 2) WHEN THE CORRESPONDING ORANGE LED BLINKS, PHYSICALLY SET ROD AT DESIRED POSITION.
- 3) TO FINISH, DEPRESS THE BLUE "SET" BUTTON.

COMPLETE!

LIGHT
(LED)

ADDED END
BLOCK

ELECTRONIC
OUTPUTS
(9' CABLE)

SPECIFICATIONS:

OUTPUTS: OPTO-ISOLATED (NC OR NO)

-VOLTAGE: 100V

-CURRENT: 150MA

-ISOLATION: 1500VRMS

-LED INDICATORS

INPUTS:

-VOLTAGE NOMINAL 6-14V

-CURRENT ~35MA

-ESD PROTECTED

5 MICRON FILTERED CLEAN AIR REQUIRED

120 MAX PSI

NO MOVING PARTS - NO MAGNETS

EASY SET-UP AND CALIBRATION

1 1/4" TO 2 1/2" BORE CURRENTLY AVAILABLE

TEMPERATURE COMPENSATED

TEMP RANGE: -12C TO +80C

INFINITE RESOLUTION

EXTREMELY LONG LIFE

STEEL OR ALUMINUM TUBES

ONE YEAR WARRANTY

REPEATABILITY .060" TO .001" (DEPENDENT ON STROKE LENGTH)

PATENTS 6952009; 7180053 OTHERS PENDING

PRELIMINARY