



# ACTUATOR

## MFN.1.25 series

*Electrical Failsafe Actuator*



### FEATURES / CHARACTERISTICS

#### Maple MFN.1.25

Supply voltage	: 24V AC/DC $\pm 10\%$ , 50/60 Hz
Type	: Electrical, Stepping Motor
Power Consumption	: 24V AC: V2.88VA operating (4.5VA max.) 24V DC: 1.35W operating (2.0W max.)
Input signal	: 0(2)-10 VDC, Ri 500 k $\Omega$ .
Output signal	: 0(2)-10 VDC, max. 20mA
Ranges	: See "Input signal". Input signal: 0(2)-10 VDC
Failsafe	: Yes
Resolution	: 1:100 (0-10V) and 1:80 (2-10V)
Manual/Electric override	: Yes
Position Indicator	: Yes
Operation time	: 16 sec/mm
Actuating force	: High (250N -30N/+80N)
Stroke	: 5.0 mm / 0.197 in (compensated)/(8.0mm/0.314 in)
Ambient temperature	: 0°C to +50°C / +32°F to +122°F
Media temperature	: 0°C to +100°C / +32°F to +212°F
Operating temperature	: 0°C – +50°C
Humidity rating	: 5..90% RH, non condensing
Storage temperature	: -20°C – +70°C
Protection	: IP54 incl. upside-down, KS C IEC 60529:2006
Cable	: 4 wires x 0.326 mm <sup>2</sup> , 1.5 meter Fixed, 4 wires x AWG22, 4.9 ft (Optional)
CE Conformity	: EN 60730
Connection to valve	: Swiveling nut M30 x P1.5
Material	: Cover: PC Body /Housing: PC Swiveling nut: PC
Closing point adjustment	: During operation the actuator will self-adjust according to the closing point and stroke length of the valve



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### FEATURES / CHARACTERSTICS (Continue..)

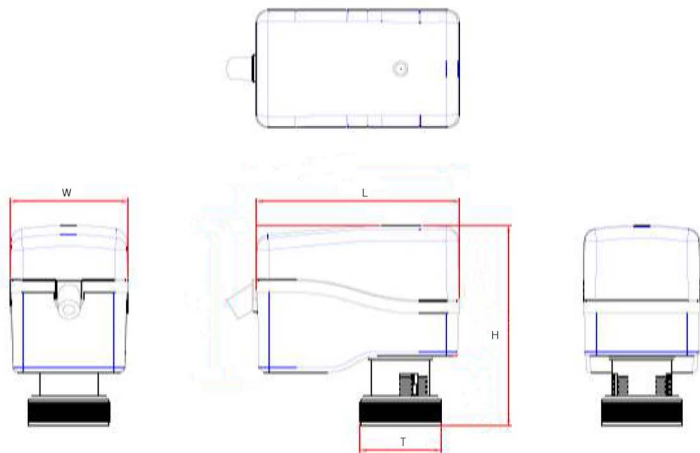
Battery Rating (Super Capacitor) : 12V-2.5F  
Capacitance : over 2.5F, AC ESR Max. less 160mΩ ( at 1kHz )

\*Caution : The closing function of the battery is related to the moving distance of the Stem and the remaining battery capacity. The battery must be sufficiently charged and it takes about 5 minutes to recharge & reuse. From full Discharge to full Charge ,it takes about 30min.

\*Remark: The internal battery's lifespan depending on the conditions of use.

### DIMENSIONS AND WEIGHTS (NOMINAL)

Actuator	L mm	W mm	H mm	T	Weight Kg(lb)
MFN.1.25	82.9	48	81.9	M30x1.5	0.23 (0.51)



### WIRING INSTRUCTION

Series	Wire Color	Property	Connector
4 Wire	RED	AC24V	Con #1
	BLACK	COM	Con #2
	WHITE	INPUT SIGNAL	Con #3
	GREEN	FEEDBACK	Con #4