SAFE INSTALLATION MANUAL (UL APPROVAL) M6D / M6N / M6S Series Ultra-Slim Signal Conditioners

SAFETY PRECAUTIONS

This manual describes important points of caution for safe use of this product in conformity with UL approval. Please read this manual carefully before installing and operating the product.

If the product is used in a manner not specified by this manual, the protection provided by the product may be impaired.

Explosion Hazard – Substitution of any components may impair suitability for Class I, Division 2.

 $\label{eq:stars} Explosion\ Hazard-DO\ NOT\ disconnect\ equipment\ unless\ power\ has\ been\ switched\ off\ or\ the\ area\ is\ known\ to\ be\ non-hazardous.$

▲ SAFETY FEATURES & CAUTIONS

The equipment must be mounted inside a panel, indoor use only.

When using with Installation Base and Power Supply Module, the Supply input must be fused at 3A slow blow.

This equipment is suitable for use in Class I, Division 2, Groups A, B, C, D or Non-Hazardous Location only.

Temperature Code of this equipment is T5 and the Maximum Ambient Temperature is 55°C.

■ MANUFACTURED DATE CODE IDENTIFICATION

The manufactured year can be identified by the serial number described in the marking of the product.

		Serial No. <u>Y M</u>	xxxxxx
YEAR ———			
4:2014	A :2020	1:2041	
5:2015	B :2021	2:2042	
: :	: :	: :	
9:2019	U :2040	9:2049	
MONTH			
1991 - 201	9(year) 20	020 – 2052 (year)	
A : January		I : January	
B : February		: February	
C : March		: March	
: :	:	:	
L : December		: December	

For Models M6DBS, M6NBS and M6SBS...

The Maximum number of bases that can be connected together using the extension base is six(6) including one (1) base or until the supply current has reached 2A.

Explosion Hazard - The area must be known to be non-hazardous before servicing/ replacing the unit and before installing.

MODEL	INPUT	OUTPUT	POWER
	4 – 20mA DC	4 – 20mA DC,	24V DC
M6xDY		0 - 10 V DC,	1.1W
		0 - 5V DC or $1 - 5$ V DC,	
		Terminal 3 – 2: 24V DC output	
	Open collector, Mechanical contact,	4 - 20mA DC, $0 - 10$ V DC,	24V DC
M6xPA	5V pulse or 24V pulse	0 - 5V DC, $1 - 5$ V DC,	0.5W
		-10 - +10V DC or $-5 - +5$ V DC	
M6xSN	0 - 20mA DC (4 - 20mA DC)	$0-20mA\ DC\ (4-20mA\ DC)$	-
M6xVS	4 – 20mA DC, 2 – 10mA DC,	4 - 20mA DC, $0 - 20$ mA DC,	24V DC
	1 – 5mA DC, 0 – 20mA DC,	0 - 1mA DC, $0 - 1$ V DC, $0 - 1$ 0V DC,	0.5W
	0 – 16mA DC, 0 – 10mA DC,	0 - 5V DC, $1 - 5$ V DC,	
	0 – 1mA DC, 10 – 50mA DC	-10 – +10V DC or -5 – +5V DC	
	0 – 1V DC, 0 – 10V DC, 0 – 5V DC,		
	1 - 5V DC,		
	-10 - +10V DC or -5 - +5V DC		
	4 – 20mA DC, 2 – 10mA DC,	Output 1: 4 – 20mA DC,	24V DC
	1 – 5mA DC, 0 – 20mA DC,	0 – 20mA DC,	0.6W
	0 – 16mA DC, 0 – 10mA DC,	0 - 5V DC or $1 - 5$ V DC	
M6xWVS	0 – 1mA DC, 10 – 50mA DC	Output 2: Same as Output 1	
	0 – 1V DC, 0 – 10V DC, 0 – 5V DC,		
	1 - 5V DC,		
	-10 - +10V DC or -5 - +5V DC		
Ma NDI	$\begin{array}{c} -10 - +10V \text{ DC or } -5 - +5V \text{ DC} \\ \hline & 0 - 50\text{mA DC}, \\ 1000 - +1000\text{mV DC or } 10 - +10V \text{ DC} \end{array}$	0 – 20mA DC,	24V DC
MOXAFI	-1000 - +1000mV DC or -10 - +10V DC	$\begin{array}{c} 4 - 20 \text{mA DC}, \\ 0 - 10 \text{V DC}, \\ 0 - 5 \text{V DC or } 1 - 5 \text{V DC}, \\ \hline \text{Terminal } 3 - 2: 24 \text{V DC output} \\ \hline 4 - 20 \text{mA DC}, 0 - 10 \text{V DC}, \\ 0 - 5 \text{V DC}, 1 - 5 \text{V DC}, \\ -10 - +10 \text{V DC or } -5 - +5 \text{V DC} \\ \hline 0 - 20 \text{mA DC}, 0 - 20 \text{mA DC}, \\ 0 - 1 \text{mA DC}, 0 - 20 \text{mA DC}, \\ 0 - 1 \text{mA DC}, 0 - 1 \text{V DC}, 0 - 10 \text{V DC} \\ 0 - 5 \text{V DC}, 1 - 5 \text{V DC}, \\ -10 - +10 \text{V DC or } -5 - +5 \text{V DC} \\ \hline \\ \end{array}$	0.5W
MC XM	Potentiometer, $100\Omega - 5000\Omega$	0 - 20 mA DC, 2	24V DC
M6xXM		-10 – +10V DC or -5 – +5V DC	0.5W
M6xXR RT	RTD	0 – 20mA DC,	24V DC
		-10 - +10V DC or $-5 - +5$ V DC	0.5W
McVT	Thermocouple	0 – 20mA DC,	24V DC
M6xXT		-10 - +10V DC or $-5 - +5$ V DC	0.5W
M6xXV	0 – 50mA DC,	0 – 20mA DC,	24V DC
	-1000 - +1000mV DC or -10 - +10V DC	-10 - +10 DC or $-5 - +5$ V DC	0.5W
M6xYV	4 – 20mA DC,	4 – 20mA DC,	24V DC
	1 – 5V DC or -10 – +10V DC	1 - 5V DC or -10 - +10V DC	0.45W

Power Rating & Input/Output Ratings

"x" represents D, N or S