

MWM7-ASC-ACCB1 - Analog Sensor Controller, CB1 Male connector for Auto Zero, CC6 Relay output connector, CB1 Female Sensor Connector, wall mount plastic 7x7x5 Enclosure, AC Powered.

The Analog Sensor Controller is a precision window comparator for our analog sensors. Most high sensitivity analog sensors have some output drift over time and temperature. The Auto-Zero function zeros the display every time the RST button is pressed, or when the Auto Zero input is brought low. The analog sensor can be zeroed every day, every hour, or even every cycle as needed. The comparator switch points are then referenced to the zeroed reading. The Auto-Zero can be done with an active sensor like a Hall Switch, or a simple normally open switch.

The switch points are user programmable. An Output Relay closes when the zeroed sensor voltage exceeds Setpoint 1. If the voltage exceeds Setpoint 2, the Output Relay opens. Most often, this configuration is used for pass / fail testing, passing only if the analog voltage is inside the window.

Programming is accomplished using the front panel switches. Pressing the PAR then SEL buttons cycle through the 4 programmable modules. Modules 1-3 are factory set, contact engineering if you need assistance with these. Module 4 [4-SPT] allows the setpoints to be changed.

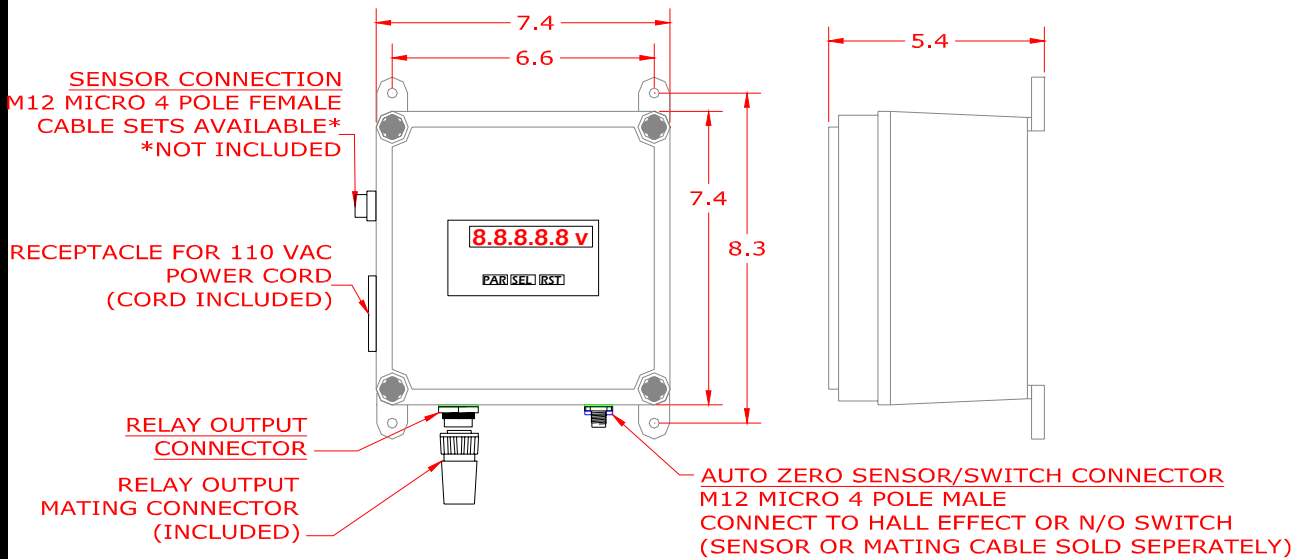
MWM7-ASC-ACCB1, ANALOG SENSOR CONTROLLER, 5 AMP FORM C RELAY, AUTO ZERO, AC POWER

DISPLAY:
5 DIGIT, 0.56" HIGH RED LED

ENCLOSURE MATERIAL:
NEMA 4X/IP65 RATED POLYCARBONATE

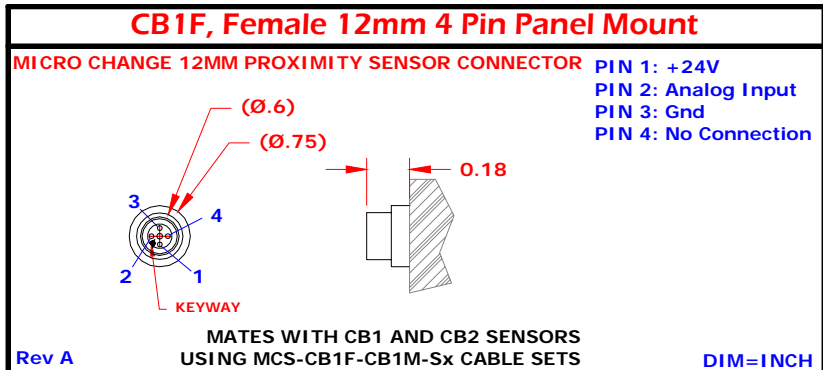
PROGRAMMING:
FACTORY PROGRAMMED FOR 1 RELAY OUTPUT
OUTPUT RANGE CUSTOMER REPROGRAMMABLE
DUAL RELAY OPTIONS AVAILABLE

OTHER OPTIONS AVAILABLE
*CONTACT US FOR QUOTE
-DIFFERENT CONNECTIONS
-DC POWERED VERSION
-LATCHING OUTPUT



REV B


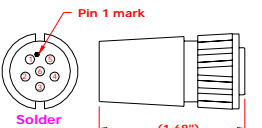
ANALOG SENSOR CONNECTION



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RELAY OUTPUT CONNECTION

CC6, 6 pin Conxall Connector & Mate for Relay Output

<p>Flange Mount Connector: Conxall Male 6 pin Multi-X Part# 4382-6PG-300</p>  <p style="text-align: center; color: magenta;">Connection Pins View</p>	<p>Mating Connector: Conxall Female 6 pin Multi-X Part# 3382-6PG-524</p>  <p style="text-align: center; color: magenta;">Solder Cups View</p> <p style="text-align: right; color: red;">Pin 1 mark</p> <p style="text-align: right; color: red;">(1.68")</p> <p style="text-align: right; color: red;">DIM=INCH</p>
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Rev B

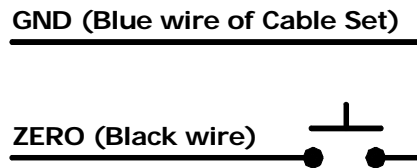


Connections Chart	
Pin 1	Normally Open
Pin 2	Normally Closed
Pin 3	Common
Pin 4-6	No Connection
CC6-APS	

CB1 AUTO ZERO CONNECTION OPTIONS

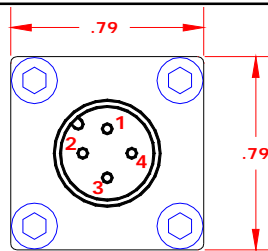
4-pin single keyway 12mm female micro-cable set sold separately

FOR CONNECTION TO
A PASSIVE SWITCH



Connections Chart	
Pin 1	Leave Open
Pin 2	No Connection
Pin 3	Ground
Pin 4	Zero
CB1 AUTO-ZERO SWITCH	

FOR CONNECTION TO AN
ACTIVE HALL EFFECT SENSOR



Connections Chart	
Pin 1	24 Vcc to sensor
Pin 2	No Connection
Pin 3	Ground
Pin 4	Digital Vout from Sensor
CB1 AUTO-ZERO SENSOR	

ASC-AC, Electrical & Functional Specifications

ABSOLUTE MAX LIMITS	CONDITIONS	MAX	UNITS
Power	AC Input Voltage	250	Volts AC
Current into Form C Output Relay	DC, 28 Volts	5	Amps
Current into Form C Output Relay	AC, 240 Volts	5	Amps
Inductive Load Power	120 Volts AC	1/8	H.P.
Voltage to analog input		-200 to +200	Volts DC
Voltage to auto-zero input		-.1 to +28	Volts DC

ELECTRICAL SPECS	CONDITIONS	MIN	MAX	UNITS
Temperature Range	Operating	0	50	Deg C
Temperature Range	Storage/No Power	-40	70	Deg C
Humidity	Operating/Storage	0	85	% RH
Voltage to auto-zero sensor	Internally Supplied	-----	24 typ.	Volts DC
Current to auto-zero sensor	Internally Supplied	-----	100	mA
Auto zero pull up resistor	Pin 4 to +24V	23k	26k	Ohms
Calibration Requirements	Operating	1	2	Years

PROGRAMMED PARAMETERS	MIN	MAX	FACTORY SET	UNITS
Setpoint Select SP1	-199.99	199.99	.25	Volts
Setpoint Select SP2	-199.99	199.99	10	Volts
Hysteresis	.001	199.99	.01	Volts
On Time Delay	0	599.9	0.0	Sec
Off Time Delay	0	599.9	0.0	Sec
Output Reset Action (Auto, Latch or Latch with delay):	Auto			
Output Reset With Display Reset (Yes or No):	Yes			
Input Range (must match jumper):	200.00 Volts			
Filter Setting 0(none) - 3(heavy):	0			
User Input Function, Assignment, Active Level:	ZErO, dsp, lo			
Setpoint Action (High Balance, Low Balance, High Unbalance or Low Unbalance):	High Unbalance			

Rev D

USER PROGRAMMING INSTRUCTIONS

These instructions allow the Low Alarm (Set Point 1) and the High Alarm (Set Point 2) to be set to their desired values. Contact Sensor Solutions Technical Support for more advanced programming. When in the programming mode, the display flashes 2 values. For example SPSEL / SP-1 means the display flashes back and forth SPSEL and SP-1. **If you get lost, continue to press the PAR button until the display says “END” and the controller will exit the programming mode.**

<u>Press Button</u>	<u>Comment</u>	<u>Display</u>
PAR	Enters programming mode	PRO/NO
SEL (4 times)	4 times until it displays	4-SPT/PRO
PAR	Enters mode to program Setpoints 1 & 2	SPSEL/NO
SEL	Ready to enter loop to change Setpoint 1	SPSEL/SP1
PAR	Enters the loop. Don't change this setting	ENB-1/YES
PAR	Don't change this setting	ACT-1/HI-UB
PAR	This is where you change the set point value note this is in volts, so 002.34 is 2.34 volts.	SPT-1 / ###.##
RST	Changes the value of the flashing number. Continue pressing to increase or wrap around to 0.	
SEL	Changes which number flashes. RST increases that digit's value. When the setpoint is correct, PAR continues the loop	
PAR	Don't change this setting	HYS-1/000.01
PAR	Don't change this setting	TON-1/000.0
PAR	Don't change this setting	TOFF-1/000.0
PAR	Don't change this setting	RST-1/AUTO
PAR	Don't change this setting	REN-1/YES
PAR	Don't change this setting	STB-1/NO
PAR	Now you are back to the beginning of the setpoint loop	SPSEL/NO
SEL	Ready to enter loop to change Setpoint 1	SPSEL/SP1
SEL	Ready to enter loop to change Setpoint 2	SPSEL/SP2
PAR	Enters the loop. Don't change this setting Now, enter Setpoint 2 like you did set point 1 above.	ENB-2/YES
PAR	When done, continue to press PAR until the display says END.	