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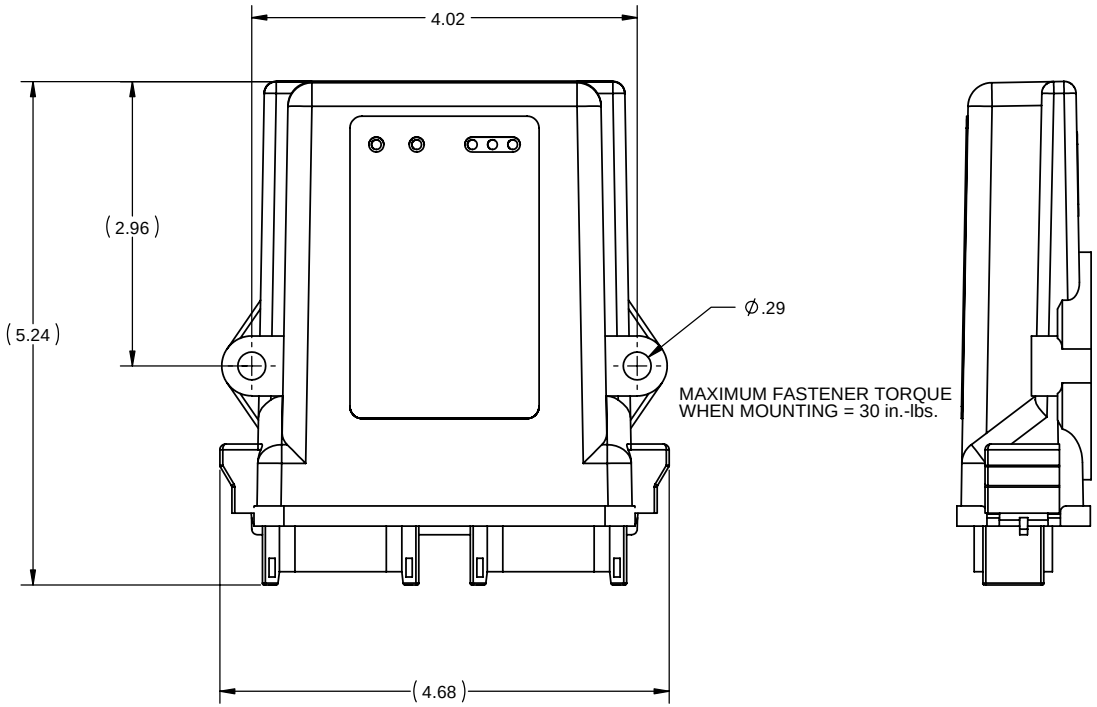
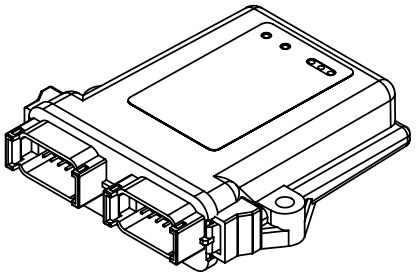
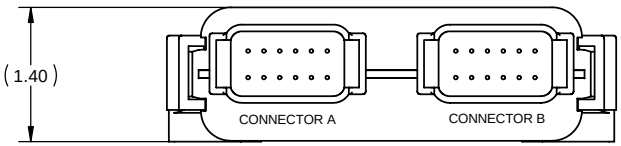
REVISIONS

REV.	ECN #	DESCRIPTION	BY	DATE	APVD
A	R0628	RELEASE	gd	01/29/07	st
B	0773	REVISED PCB ASSEMBLY	gd	7/30/07	st

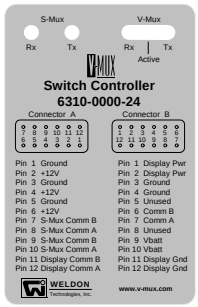




ISOMETRIC VIEW



MATING CONNECTOR INFORMATION:
CONNECTOR A = DEUTSCH, DTM06-12SB
CONNECTOR B = DEUTSCH, DTM06-12SA



SWITCH CONTROLLER LABEL SHOWING CONNECTOR PIN ASSIGNMENTS

NOTES:

1) SMART SWITCH MODULES ARE TO BE WIRED IN STRINGS ON S-MUX COMM LINES A AND B. IN ADDITION TO COMM LINES A AND B, +12V AND GROUND MUST BE SUPPLIED TO THE MODULES. REFERRING TO THE SWITCH LABEL SHOWN AT RIGHT, IT CAN BE SEEN THAT COMM LINES A AND B APPEAR ON CONNECTOR A, PINS 7 THRU 10 AND THAT +12V AND GROUND APPEAR ON PINS 1 THRU 6. THE ONLY RESTRICTION IN WIRING THE SMART SWITCH MODULES IS TO LIMIT THE NUMBER OF SWITCH MODULES PER STRING TO NO MORE THAN EIGHT MODULES. SINCE MODULES ARE WIRED IN A DAISY-CHAIN FASHION FOR EASE OF INSTALLATION, THE FOUR- WIRE COMMUNICATION CABLE MUST CARRY THE SUPPLY CURRENT FOR ALL THE MODULES IN THE STRING. THE FOREGOING RESTRICTION MEANS THAT THE SWITCH CONTROLLER IS CAPABLE OF CONTROLLING UP TO 16 SMART SWITCH MODULES.

2) V-MUX COMM LINES A AND B CAN BE FOUND ON CONNECTOR B, PINS 6 AND 7. THE CONTROLLER IS POWERED BY APPLYING VBATT AND GROUND TO CONNECTOR B, PINS 9 THRU 12.

3) MINIMUM COMMUNICATION CABLE SIZE IS 24 AWG STRANDED.

4) A 5AMP AUTOMOTIVE-STYLE FUSE IS REQUIRED IN THE SUPPLY LINE TO THIS DEVICE. FAILURE TO FOLLOW THIS RECOMMENDATION COULD LEAD TO FIRE IN THE CASE OF A SHORT CIRCUIT.

5) SPECIFICATIONS: OPERATING TEMPERATURE RANGE IS -40°C TO +85°C
OPERATING VOLTAGE RANGE IS +18VDC TO +32VDC
IP-67 ENVIRONMENTAL RATING.

6) WHENEVER POSSIBLE, INSTALL WITH CONNECTORS FACING DOWN.

7) MODULE-TO-MODULE WIRING IS ACCOMPLISHED WITH S-MUX CABLE, WELDON P/N 0L40-2088-00. FOR INFORMATION ON CABLE CONSTRUCTION SEE WELDON DOCUMENT C0L40-1950-00.

8) USE 20 AWG MINIMUM STRANDED WIRE FOR POWER AND GROUND LINES ON CONNECTOR "B" OF THE SWITCH CONTROLLER.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
X.XXX - ±0.005
X.XX - ±0.020
X.X - ±0.050
ANGLES - ±0.5°

MATERIAL

FINISH

DO NOT SCALE DRAWING

CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE

APPROVALS	DATE
DRAWN GD	4/27/06
CHECKED ST	9/20/06
MFG ENG	
QUAL ENG	
PROJECT NO. 00131	

WELDON TECHNOLOGIES, INC.

SMART SWITCH CONTROLLER (24V)

SIZE C | PART NO. C6310-0000-24 | REV. B

SCALE 1:1 | WELDON COMPUTER GRAPHICS | SHEET 1 OF 1