

6' CABLE (STANDARD LENGTH) INCLUDED WITH MBL/MBZ BRAKE & CONTROLLER  
 MBS PART # 196-0800-6  
 22 AWG, 8 CONDUCTOR SHIELDED CABLE AND TERMINAL BLOCKS

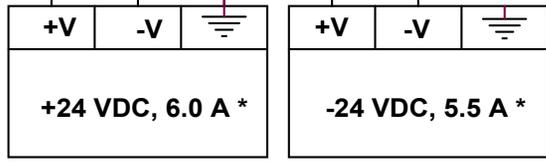
DB9 CONTROL INTERFACE (OPTIONAL ITEM, SEE NOTES: 1&2)

C-	BRN	-DRIVE COIL
C+	RED	+DRIVE COIL
B+	ORN	+24V SOLENOID
B-	YEL	SOLENOID
S+	GRN	+5V HALL EFFECT SENSOR
SO	BLU	HALL EFFECT SENSOR OUT
G	BLK	GROUND
T+	WHT	(TEMP FAULT SIGNAL) **

BRN	1
RED	2
ORN	3
YEL	4
GRN	5
BLU	6
BLK	7
WHT	8
SHIELD	9
+24VDC	10
GND	11
-24VDC	12

ASSY. - CONTROLLER, MBL / MBZ BRAKE (255-0410B)

MBL/MBZ BRAKE



\*POWER SUPPLIES ARE NOT INCLUDED WITH THE PURCHASE OF BRAKE AND CONTROLLER.

\*24 VDC, 6.5A, POWER SUPPLIES MAY BE PURCHASED FROM MBS (P/N: EP7136)

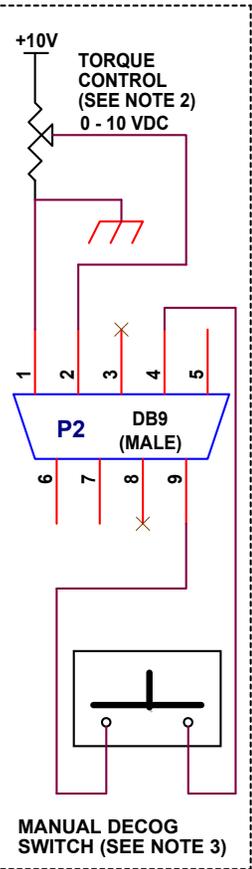
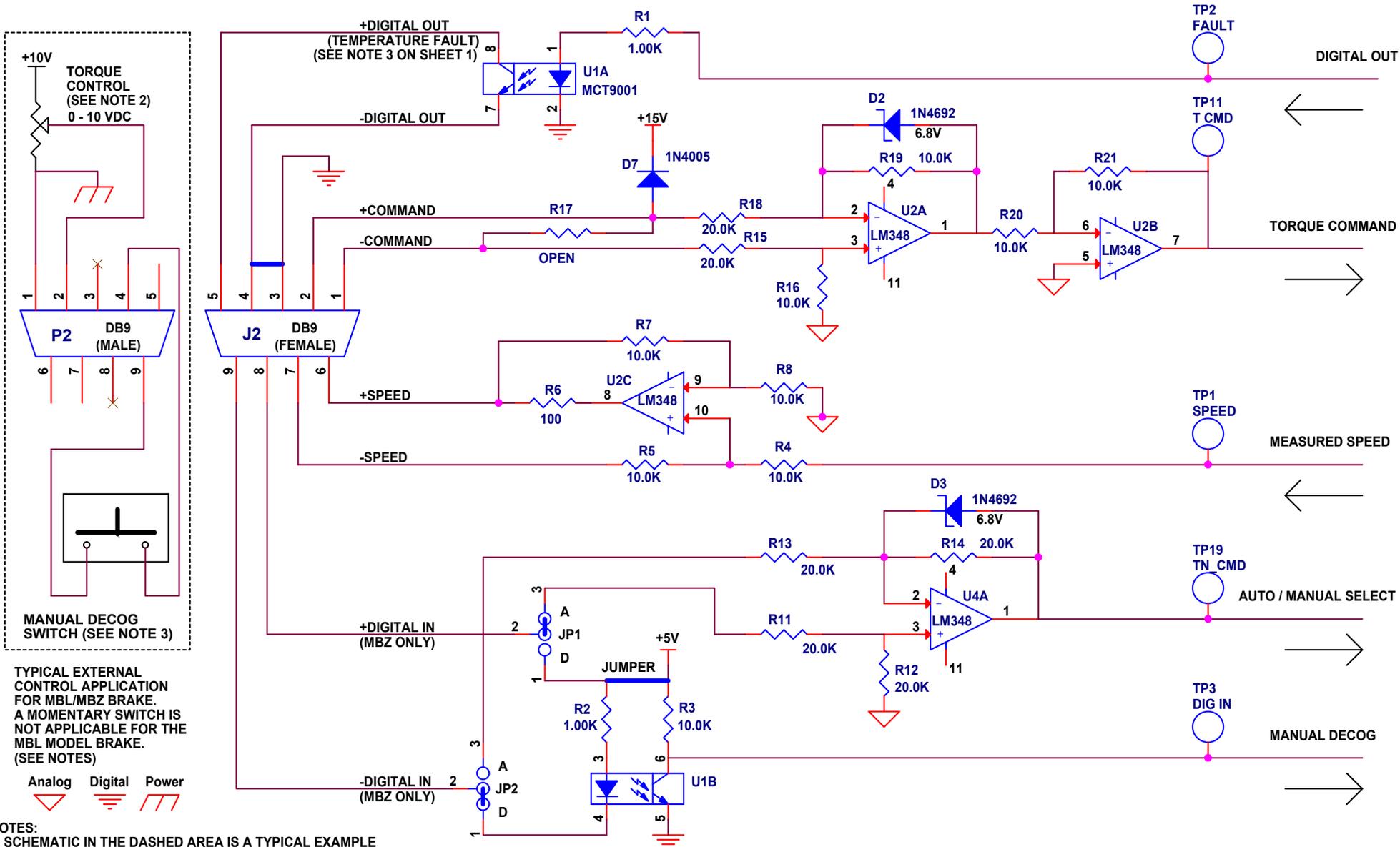
**NOTES:**

1. P2 (MBS P/N: 255-0830): DB9 PLUG IS AN OPTIONAL ITEM W/ A 3 FT. CABLE (OTHER CABLE LENGTHS AVAILABLE UPON REQUEST)
2. J2: DB9 CONTROL INTERFACE PINOUT SEE SHEET 2 OF THIS DRAWING FOR SCHEMATIC

PIN	NAME	DESCRIPTION
1	- COMMAND	INPUT: TORQUE COMMAND MINUS (GND REF. FOR PIN 2)
2	+ COMMAND	INPUT: TORQUE COMMAND POSITIVE
3	PWR GND	OPTIONAL (i.e. SIGNAL SHIELD)
4	- DIGITAL OUT	GND REF FOR TEMP FAULT SIGNAL. SEE NOTE 3
5	+ DIGITAL OUT	OUTPUT: DIGITAL (HI / LOW). SEE NOTE 3
6	+ SPEED	OUTPUT: SPEED OUTPUT (0-4 VDC)
7	- SPEED	OUTPUT: GND REF FOR PIN 6
8	AUTO/MANUAL	INPUT +5 VDC DURING POWER UP = AUTO-DECOG (MBZ ONLY)
9	MAN DE-COGG	GROUND PIN 4 & 9 W/ MOMENTARY SWITCH TO ACTIVATE

3. \*\* TEMP FAULT SIGNAL, SOFTWARE V2.9 AND LATER, ONLY WORKS WITH MBS TEMPERATURE SENSOR (MBS PART# MBS-IR-1). WHEN MAX DRAG RING TEMPERATURE IS REACHED, SENSOR SIGNALS CONTROLLER TO CUT POWER TO BRAKE; SIGNAL GOES FROM LOW TO HIGH.

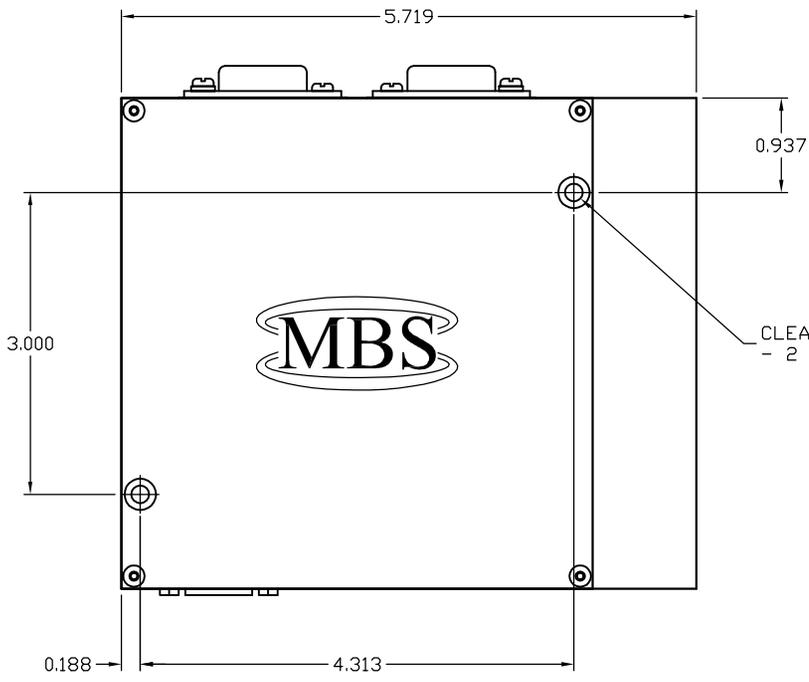
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	11/26/18	INTERFACE - MBL/MBZ, 0-10 VDC TORQUE CMD SIGNAL
		SHEET 1 OF 2 200-0805-04



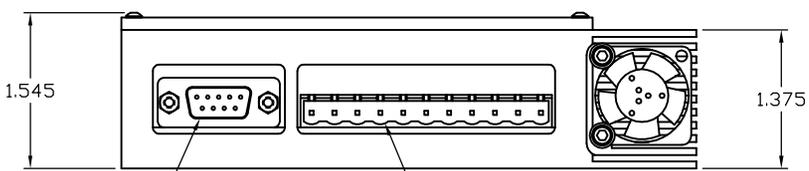
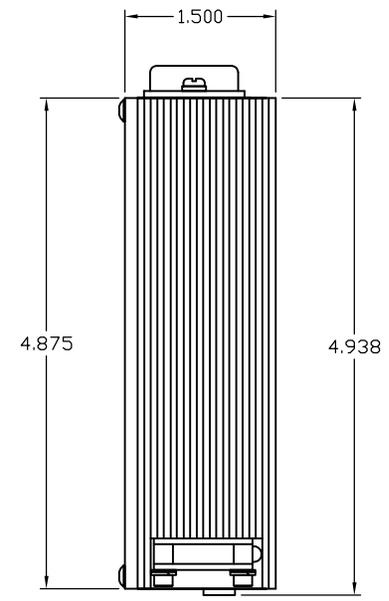
TYPICAL EXTERNAL CONTROL APPLICATION FOR MBL/MBZ BRAKE. A MOMENTARY SWITCH IS NOT APPLICABLE FOR THE MBL MODEL BRAKE. (SEE NOTES)

- NOTES:
1. SCHEMATIC IN THE DASHED AREA IS A TYPICAL EXAMPLE OF A CONTROL APPLICATION FOR THE BRAKE CONTROL MODULE. SECTION IN DASHED LINE IS PROVIDED BY THE CUSTOMER.
  2. A DC VOLTAGE SIGNAL CONTROLS THE TORQUE OF THE BRAKE. THE TORQUE SCALE FACTOR FOR THE BRAKE IS MARKED ON THE DATA SHEET FOR THE BRAKE.
  3. MANUAL DECOG SWITCH (MBZ MODELS ONLY) - A MOMENTARY SWITCH, NORMALLY OPEN. CLOSURE WILL INITIATE THE MANUAL DECOG CYCLE IN THE BRAKE CONTROL. SWITCH MAY BE PURCHASED FROM MBS (P/N: EP7869)
  4. FOR SOFTWARE VERSION 2.9 AND LATER, MANUAL DECOG IS THE DEFAULT SETTING FOR MBZ MODEL BRAKES. SUPPLYING +5VDC ON PIN 8 WHILE POWERING ON SYSTEM WILL SELECT AUTO DECOG.

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	11/26/2018	INTERFACE - MBL/MBZ, 0-10 VDC TORQUE CMD SIGNAL
		SHEET 2 OF 2 200-0805-04

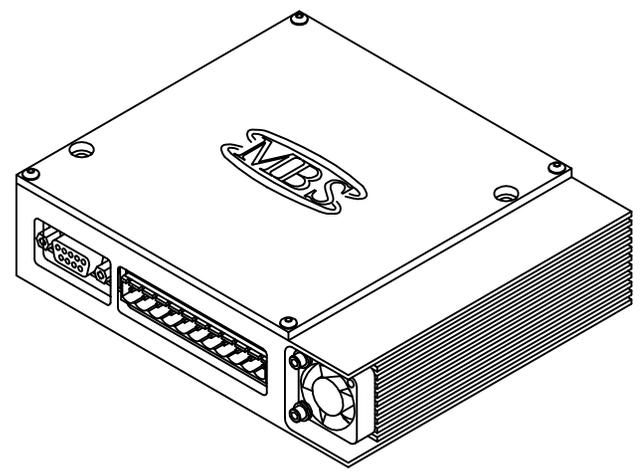


CLEARANCE FOR A #8 SCREW  
- 2 PLACES



J2 (FEMALE) DB9

J1 (MALE) EURO STYLE (PHOENIX CONNECTOR)



NOTES:

1.

- UNLESS OTHERWISE SPECIFIED
1. DIMENSIONS ARE PER ANSI Y14.5-1973
  2. SURFACE ROUGHNESS PER ANSI B46.1-1978
  3. LINEAR DIMENSIONS IN INCHES
  4. LINEAR TOLERANCES:  
X ± .05, XX ± .02, XXX ± .005
  5. ANGULAR TOLERANCES:  
X ± 5°, X ± .5°
  6. MACHINED SURFACES:  
I AND I ALL PLANES .002/INCH  
DIAMETERS WITHIN .005 TIR  
MAXIMUM SURFACE ROUGHNESS √ 32
  7. BREAK EDGES .01 TO .02
  8. FILLETS R0.02 MAX

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 4725 CALLE QUETZAL, CAMARILLO, CA 93012  
 OR MAY CONTAIN PROPRIETARY RIGHTS OF OTHERS AND IS NOT TO BE USED OR  
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ASSY. - CONTROLLER,  
 MBL/MBZ BRAKE

SH 1 OF 1  
 255-0410B