MAGNETIC BRAKE SYSTEMS

THE INFORMATION DISCLOSED HEREIN IS THE EXCLUSIVE PROPERTY OF

MBS PART # 196-0800-6
22 AWG, 8 CONDUCTOR SHIELDED CABLE AND TERMINAL BLOCKS

6' CABLE (STANDARD LENGTH) INCLUDED WITH MBL/MBZ BRAKE & CONTROLLER

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

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

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

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

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.

*MPOWER 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)

*24 VDC, 6.0 A *

+24 VDC, 5.5 A *

INTERFACE - MBL/MBZ,
0-10 VDC TORQUE CMD SIGNAL

11/26/18

SHEET 1 OF 2

200-0805-04
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.

THE INFORMATION DISCLOSED HEREIN IS THE EXCLUSIVE PROPERTY OF MAGNETIC BRAKE SYSTEMS OR MAY CONTAIN PROPRIETARY RIGHTS OF OTHERS AND IS NOT TO BE USED OR DISCLOSED TO OTHERS WITHOUT THE WRITTEN CONSENT OF THE ABOVE.