

**GLOBAL CERTIFIED PRODUCT**

**NO MODIFICATIONS PERMITTED WITHOUT THE PERMISSION OF THE CERTIFICATION ENGINEER**

**INSTALLATION INSTRUCTIONS**

1. FASTEN SOLENOID TO HYDRAULIC SUB-ASSEMBLY
2. TIGHTEN NUT WITH AID OF A TOOL TO 8 Nm (6.5 FT.LBS)
3. CONNECT MALE PLUG TO APPROPRIATE FEMALE RECEPTACLE AS SHOWN ON MACHINE WIRING DIAGRAM, OR LEAD WIRES TO APPROPRIATE CONNECTIONS AS SHOWN ON THE MACHINE WIRING DIAGRAM IF CONNECTOR IS NOT USED

**MAINTENANCE INSTRUCTIONS**

1. INSPECT SOLENOID ASSEMBLY FOR FRACTURES OR CRACKS
2. INSPECT CABLE ENTRY AREA FOR DAMAGED OR EXPOSED WIRES
3. ENSURE THE SOLENOID CARRIES A CERTIFICATION LABEL THAT IDENTIFIES IT SUITABLE FOR USE IN HAZARDOUS LOCATIONS

**SPECIAL CONDITIONS FOR SAFE USE**

**THE PERMANENTLY CONNECTED POWER CABLE SHALL BE TERMINATED IN A MANNER THAT IS SUITABLE FOR THE ENVIRONMENT WHERE IT IS BEING USED.**

**IF IT IS TERMINATED IN A HAZARDOUS AREA APPROPRIATE EXPLOSION PROTECTION SHALL BE PROVIDED.**

**(NOTE: FOR CATEGORY 2 APPLICATIONS, THE PROTECTIVE DEVICES THAT ARE USED SHALL BE CERTIFIED BY A NOTIFIED BODY)**



**ATEX INFORMATION**

**ASSEMBLIES WILL CARRY THE FOLLOWING INFORMATION**

INCLUDES WEEK AND YEAR, M FOR MINING

MINING VERSION

**Excell Manufacturing Solutions**  
**OHIO-USA**  
**TYPE NO. 12310GEX**  
**SERIAL # \_\_\_\_\_ -M**  
**Tamb Range -20°C to +40°C**  
**Ex mb I Mb**

 **I M2**  **0518**



**24 VDC, .93 AMPS**  
**ATEX SIRA 10ATEX5075X**  
**IECEX ITA 10.0006X**  
**MASC M/10-268X**  
**MSHA 18-NXA100001-0**

1000051

INCLUDES WEEK AND YEAR, G FOR ABOVE GROUND

ABOVE GROUND (SURFACE) VERSION

**Excell Manufacturing Solutions**  
**OHIO-USA**  
**TYPE NO. 12310GEX**  
**SERIAL # \_\_\_\_\_ -G**  
**Tamb Range -50°C to +40°C**  
**Ex mb IIC T3 Gb**

 **II 2 G**  **0518**

**24 VDC, .93 AMPS**  
**ATEX SIRA 10ATEX5087X**  
**IECEX ITA 10.0006X**  
**MASC S/10-268X**  
**MSHA 18-NXA100001-0**

1000052

| REVISION HISTORY |  |            |          |
|------------------|--|------------|----------|
| REV              | DESCRIPTION                                      | DATE       | APPROVED |
| 1                | CHANGED LABELS                                   | 03/16/10   | JHH      |
| 2                | CHANGED SPECIAL CONDITIONS                       | 07/23/10   | MSB      |
| 3                | ADDED MASC CERT. NUMBER                          | 01/07/11   | MSB      |
| 4                | CHANGED AMP RATING                               | 02/13/12   | MSB      |
| 5                | CHANGED WORDING TO HAZARDOUS LOCATIONS           | 2/12/2013  | MSB      |
| 6                | DWG # Change, Added 2 pages, Label, Company Name | 11/13/2014 | MSB      |
| 7                | Changed Ambient to Tamb, update Temp Range       | 6/19/2015  | MSB      |

|                 |           |   |              |
|-----------------|-----------|---|--------------|
| DRAWN<br>Paquin | 2/12/2013 | Excell Manufacturing Solutions, LLC<br>9286 Mercantile Drive<br>Mentor, Ohio 44060 216-261-5700 |              |
| CHECKED         |           | TITLE<br><b>INSTRUCTION SHEET</b><br><b>TYPE 1 COIL, 24 VDC, .93 AMPS</b>                       |              |
| QA              |           | SIZE<br>C   | REV<br>7     |
| MFG             |           | DWG NO<br>12310GEX i Rev 7  |              |
| APPROVED        |           | SCALE   | SHEET 1 OF 3 |