ISB-101

Intrinsic
Safety Barrier for Magnetic Pickups



FEATURES

The ISB-101 limits the available energy level entering a hazardous location to a level that is intrinsically safe.

The ISB-101 also prevents high power levels which may result from faults, a misconnection, or excessive power input to transmitters, alarms, etc. from passing into the hazardous location.

SPECIFICATIONS

Maximum Output Into Hazardous Area:
The output into the hazardous area from the ISB-101 Barrier will not exceed 14 Vdc, 85 mA under normal or abnormal conditions.

Construction:
Totally encapsulated. Impervious to dust and foreign material.

Storage/Operating Temperature Range:
-40°F to +185°F (-40°C to +85°C)

INTRINSICALLY SAFE

The ISB-101 Intrinsic Safety Barrier is CSA approved as having an intrinsically safe output for Class I, Division 1, Groups C and D locations when used with any of the following approved Dynalco magnetic pickups: M104, M134, M135, M139, M140, M160, M180, M201, M202, M203, M204, M205, M231, M233, M337.

DESCRIPTION/USAGE

The ISB-101 is designed to be used in a safe area to isolate and receive electrical signals from an intrinsically safe Dynalco magnetic pickup mounted in a hazardous location.

The ISB-101 Barrier prevents energy that exceeds intrinsically safe levels from being conducted into the hazardous location. The ISB-101 is intended for use in connecting transmitters, alarms, controllers, monitors, etc. which are located in safe areas (or mounted inside explosion proof enclosures) with approved, intrinsically safe Dynalco magnetic pickups mounted in

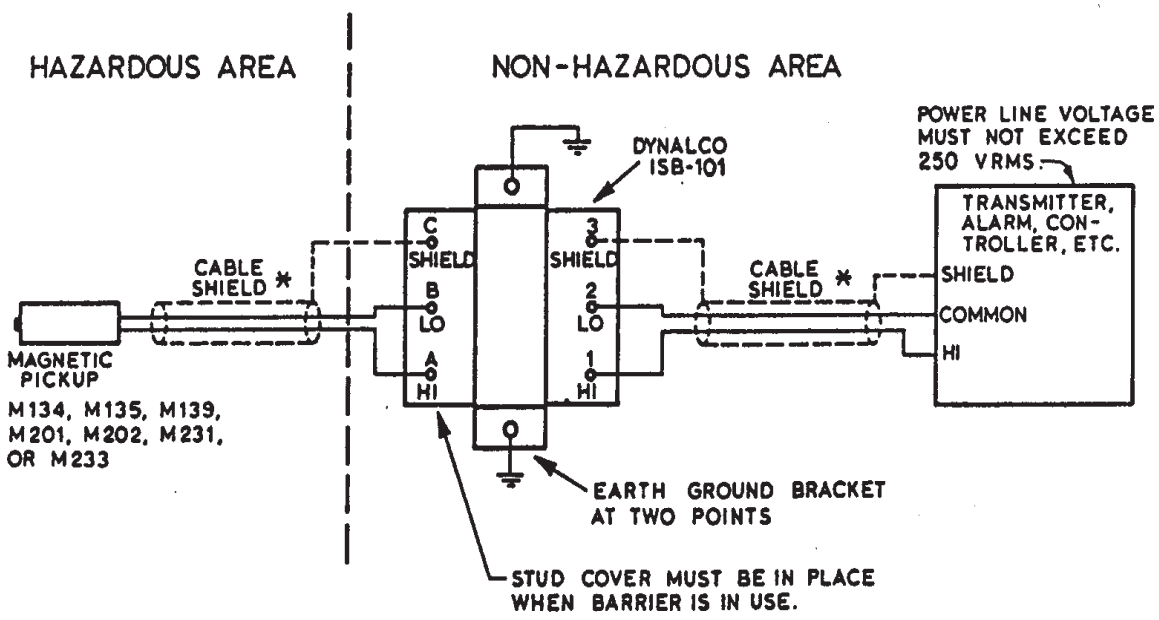
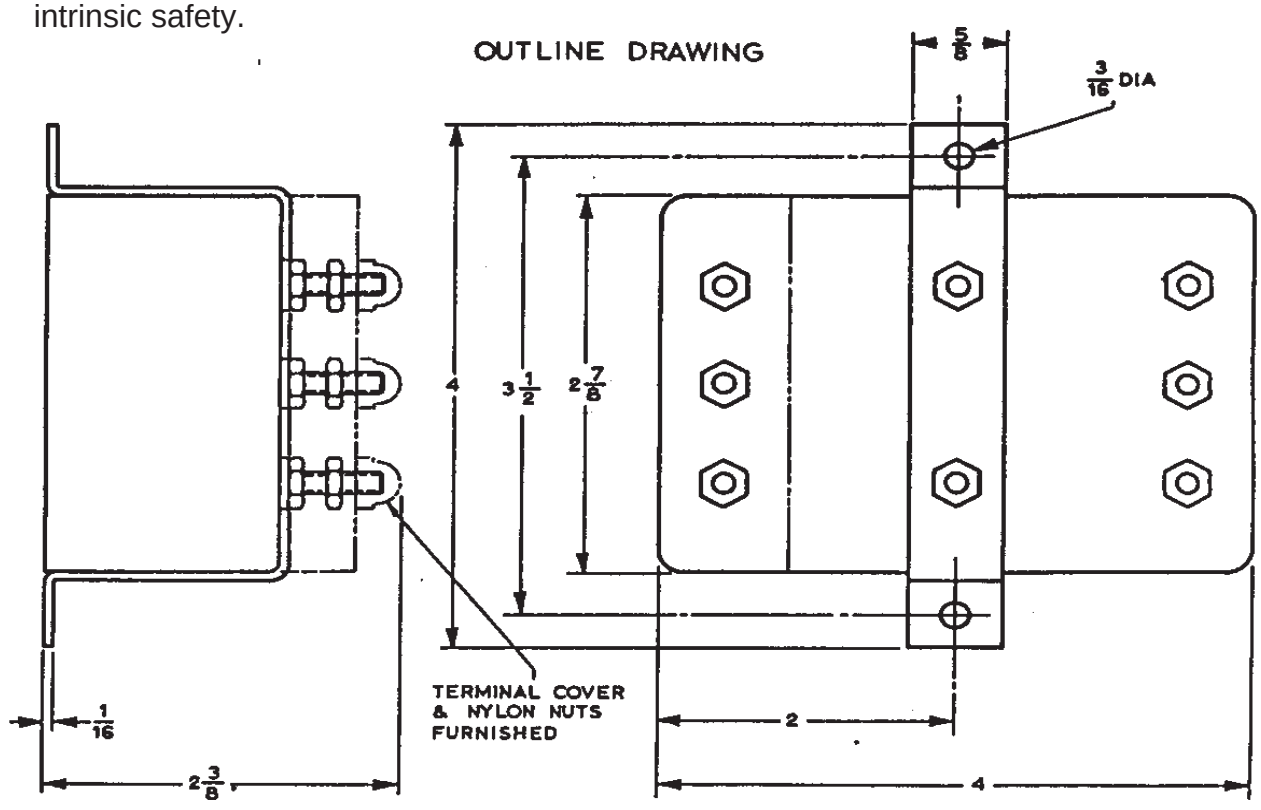


Figure 1

WARNING

Unauthorized equipment connection to magnetic pickup signal terminals may impair intrinsic safety.



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