

150IS BARRIER UNIT RIS-BAR



Varis' Smart Com 150IS Barrier unit acts a barrier between "Safe" and "Hazardous" areas in an IS installation. Barrier units are also used to define DC cells within an IS installation. The layout rules for Smart Com 150IS systems can be found in drawing MSHA-IS-01.



RIS-BAR

Product Specifications

Part Number	RIS-BAR
Physical	
Construction	Single Printed Circuit Board
Enclosure	NEMA 4x (IP66), Fiberglass reinforced polyester plastic
Dimensions (L x W x H)	230 x 160 x 91 mm (9.1 x 6.3 x 3.6 in)
Weight (nominal)	1.5 kg (3.31 lbs)
Connectors	2 Three terminal Lug connectors, PG21 cable grips
Conformal Coating	2 coats, CT1 > 100
Environmental	
Temperature Range	-20 to +60° C (-4 to +140 °F)
Electrical	
Voltage	DC Blocking
RF Characteristics	
Input Impedance	75 ohms
Output Impedance	75 ohms
Frequency Range	145-185 MHz
Insertion Loss (typical)	< 1 dB
Approvals	
Intrinsic Safety	MSHA, Approval #23-A050001-0
CE Certification	Yes

Installation

- Refer to the latest version of MSHA-IS-01 for Smart Com 150IS installation rules.

WARNINGS



The Smart Com 150IS Barrier Unit (RIS-BAR) is approved for use only when installed according to the requirements of Varis Mine Technology System Layout Drawing MSHA-IS-01.



Any changes in the Intrinsically Safe circuitry or components may result in an unsafe condition.

