450IS BARRIER UNIT
UIS-BAR

Varis' Smart Com 450IS 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 450IS systems can be found in drawing MSHA-UIS-10.

UIS-BAR

Product Specifications

Part Number	UIS-BAR
Physical	
Construction	Single Printed Circuit Board
Enclosure	NEMA 4x (IP66), Fiberglass reinforced polyester plastic
Dimensions (L x W x H)	162 x 120 x 91 mm (6.4 x 4.7 x 3.6 in)
Weight (nominal)	0.92 kg (2.03 lbs)
Connectors	Two N-type Jack Bulkheads
Conformal Coating	2 coats, CTI > 100
Environmental	
Temperature Range	-20 to +60° C (-4 to +140 °F)
Electrical	
Voltage	DC Blocking
RF Characteristics	
Input Impedance	50 ohms
Output Impedance	50 ohms
Frequency Range	10 – 500 MHz
Insertion Loss (typical)	Voice Downstream: 4 dB Voice Upstream: 3.5 dB CMTS Downstream: 2.5 dB CMTS Upstream: 1 dB
Approvals	
Intrinsic Safety	Pending
CE Certification	No

Installation

- Reduce Leaky Feeder cable length by 70 m (230 ft) for each Barrier unit installed.
- Refer to the latest version of MSHA-UIS-10 for Smart Com 450IS installation rules.