BSR-7070/A/MAR Line Isolator

TECHNICAL SPECIFICATIONS	
SUPPLY VOLTAGE V min - V max	21-30V DC
CURRENT LOAD	0-500 mA
STANDBY CURRENT	200 μA
ACTIVATION CURRENT	3mA
DEGREES OF COVER PROTECTION	IP20
PRODUCED IN ACCORDANCE WITH	EN 54-17, IEC 60092-504, IEC 60533
OPERATION TEMPERATURE	-10 to 60 °C
RELATIVE HUMIDITY	Up to 95%
MAX. RATED CONTINUOUS CURRENT WITH THA SWITCH CLOSED ($I_C$max)	0.5 A
MAX. RATED SWITCHING CURRENT ($I_S$max)	20 A
MAX. LEAKAGE CURRENT ($I_L$max) WITH THE SWITCH OPEN	3mA
MAX. SERIES IMPEDANCE WITH THE SWITCH CLOSED ($Z_C$max)	0.050 Ohm
DIMENSIONS	130x38x32mm.
WEIGHT	70gr.
GUARANTEE	2 years

Thank you for your trust in our products
Olympia Electronics - European manufacturer

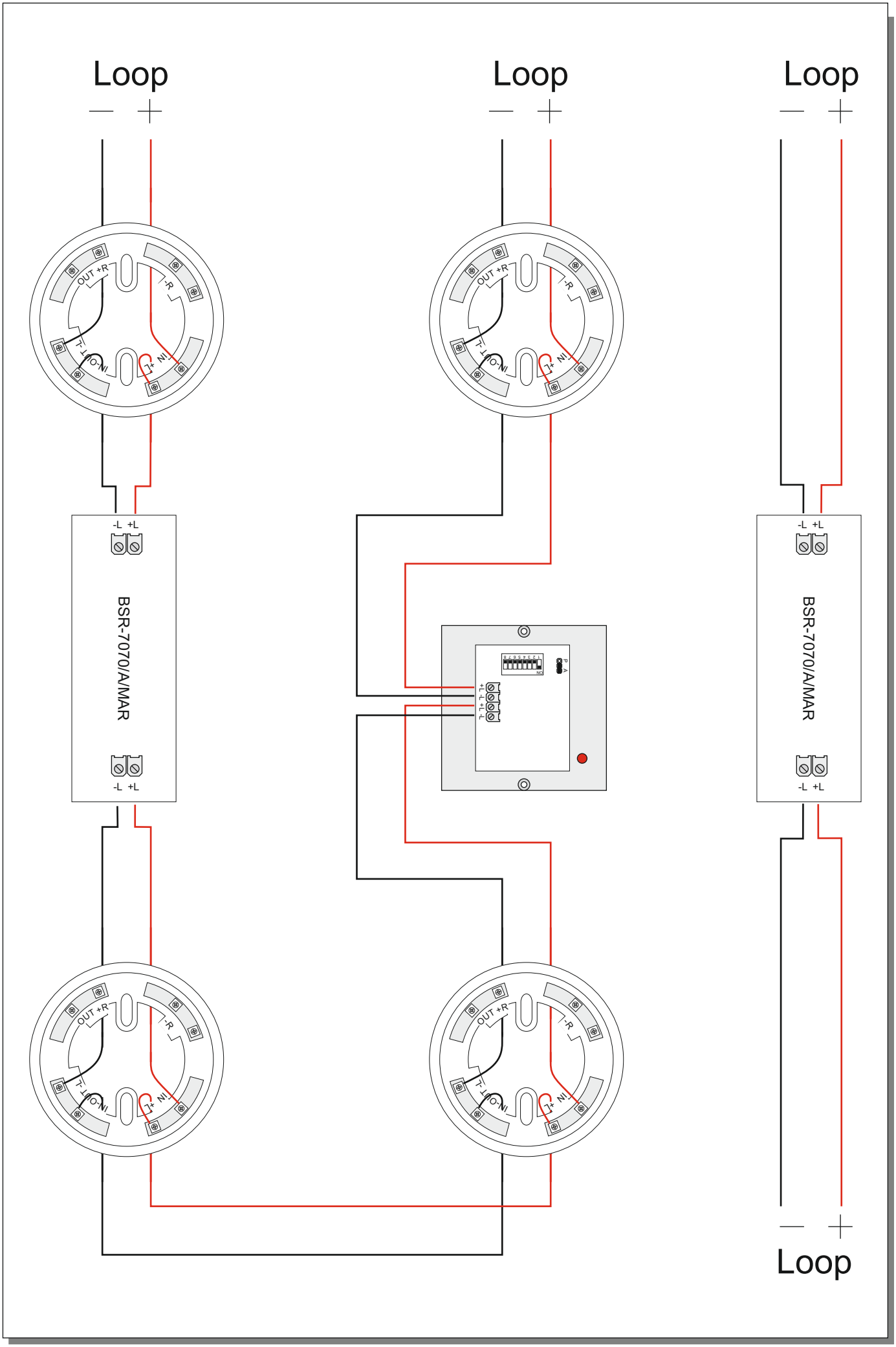
GENERAL

The line isolator is used on ships and is a bidirectional non-addressable device for addressable fire detection panels and loops. It is installed in Addressable Loop , powered by the Loop and monitors continuously the Voltage Level and the Current Flow. The main supported function is to isolate a portion of the loop (between two isolators) in the event of a short-circuit. It is installed in regular intervals among the other devices.

According to Fire Regulation Rules, in case of a short circuit it is not allowed for more than 32 detectors to go out of order. So it is required every 32 detectors one line isolator to be installed. Each loop has a capacity of 32 line isolators.

The conditions that activate the BSR-7070/A/MAR device, is Voltage across the Loop lower than 14V or Current flow higher than 500mA. When a short circuit takes place the isolators that are close to the short circuit, open the loop and keep it isolated until the short circuit condition is removed.

During installation, the BSR-7070/A/MAR applies continuity on the (-) terminals. At start up a short circuit examination process takes place and after that applies continuity of the (+) terminals. The device is case sensitive between the two (+-) terminals.


Loop
Loop
Loop
OUT +R
-R
IN -OUT -L
IN +L
-L +L
BSR-7070/A/MAR
-L +L
Loop