

ASAP PROTOCOL CONVERTER BSL-350

AutroSafe Interactive Fire Detection System Product Datasheet

Features

- Converts AutroSafe's AutroCom protocol to BS-100's ASAP protocol
- Converts alarms, prealarms, fault, silence, reset, SMV value, disable and enable messages
- LEDs on front indicates correct operation and faults
- DIN rail mounting

Description / Application

The BSL-350 ASAP/AutroCom Protocol Converter is a robust and reliable unit that allows AutroSafe panels (116-BS-420ASAP) to be connected to ASAP communicating monitoring devices.

BSL-350 is easy to configure and install. Once correctly installed, no maintenance is required. All warnings, faults and errors are communicated and will also be indicated on the AutroSafe display and stored in the AutroSafe log.

For detailed information on the installation and operation of this unit, refer to System Design and Engineering for AutroSafe Integrated Fire and Gas Detection System, 116-P-SYSDEENGIN-IFG/XGB.



Upgrading of BS-100 installations

The BSL-350 protocol converter allows the now obsolete BS-100 fire detection panel to be replaced by modern AutroSafe fire detection panels. There is no need to upgrade control room equipment.

Project planning:

- Get a list of ASAP messages used by the top system. The serial ASAP line can be logged as a last resort. Experience shows that every top system implements ASAP differently.
- The implementation of BSL-350 requires one person from the Autronica Technical department who can contribute to the project design, FAT and commissioning. Autronica cannot guarantee any successful implementation without this contribution.
- There must always be a FAT to find and solve problems. Do NOT install directly at the customer's site. You may need a development engineer present during the FAT. Allow for several days just to get ASAP running.

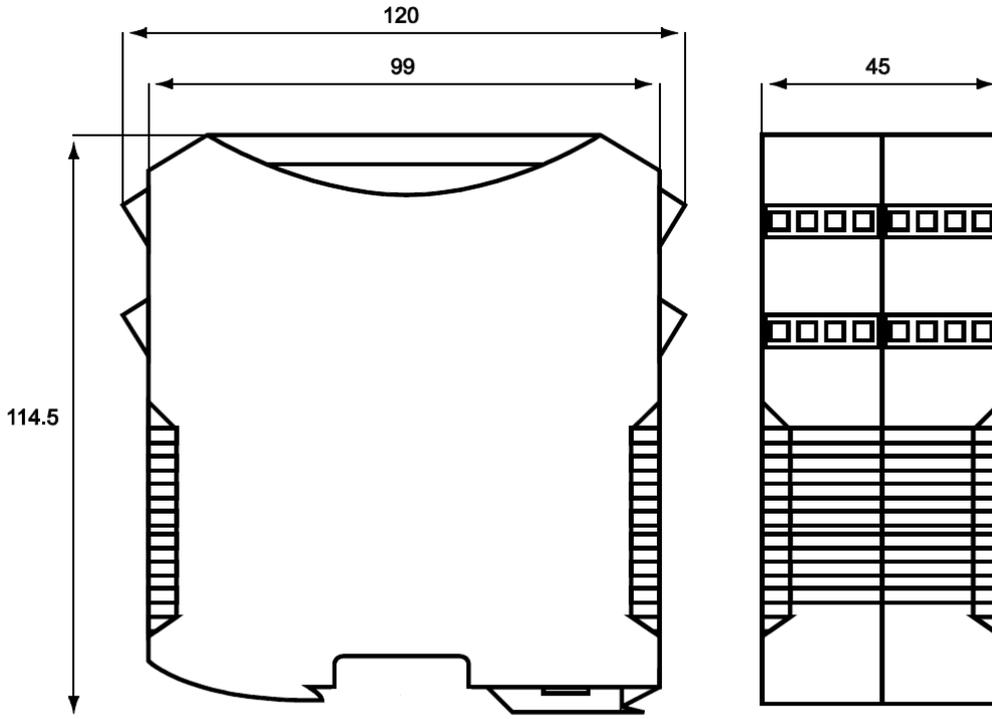
Product Name	Part number	Description
BSL-350	116-BSL-350	ASAP Protocol Converter

Note that BSL-350 is only available as part of 116-KIT-BS-420ASAP.

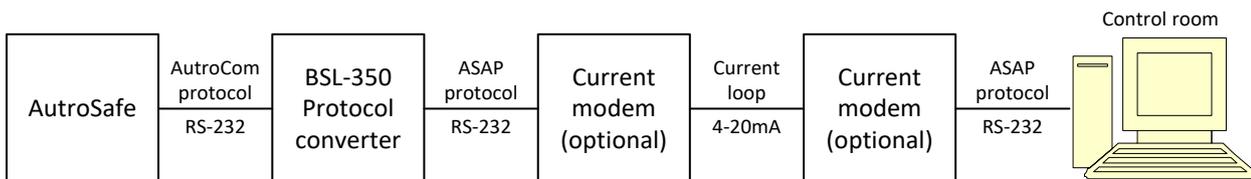
Technical specifications		
Physical		
Dimensions (mm)	114,5 x 120 x 45 (HxDxW)	
Weight	250g	
Mounting	TS-35 DIN rail (internally or externally to AutoSafe panels)	
Housing materials	PC/ABS, Polyamid 6.6	
Colour	Green	
Interfaces		
Port 1	Protocol	AutroCom
	Signal level	RS-232
	Data format	9600 baud, 8, N, 1
	Max cable length	10 m
Port 0	Protocol	ASAP
	Signal level	RS-232
	Data format	1200 baud, 7, E, 2
	Max cable length	10 m
Service PC	Signal level	RS232
	Data format	115200 baud, 8, N, 1
	Max cable length	10 m
Cable terminals	Plug in screw connection, maximum 2.5mm² cable	
Power		
Power supply (from AutoSafe)	18 - 32 VDC	
Current consumption	Typically 150 - 200mA @ 24 VDC	
Environmental		
Working temperature	-10→+60°C	
Storage temperature	-25→+70°C	
Relative humidity (operating and storage)	10–95%, RH (non-condensing)	
Degree of protection	IP20	
EMC compliance		
EMC compliance	IEC 60945	
Emissions	EN 50081-2 (94)	
Immunity	EN 50082-2 (95)	

Dimension Drawing

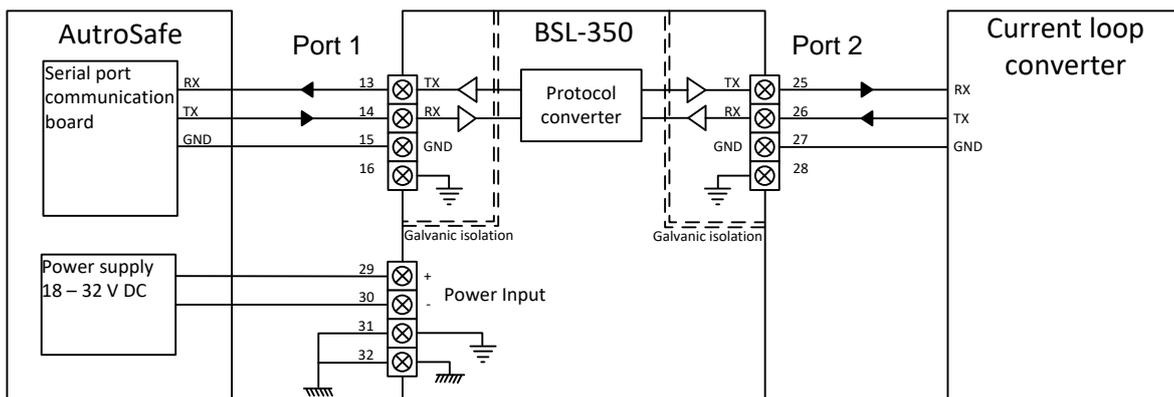
The figure below illustrates the mechanical dimensions.



Block diagram



Electrical connections



Termination

Terminal	Function	Terminal	Function
1	NC	17	NC
2	NC	18	NC
3	NC	19	NC
4	NC	20	NC
5	NC	21	Service PC, TX, RS232
6	NC	22	Service PC, RX, RS232
7	NC	23	Service PC, RS232, Signal reference
8	NC	24	NC
9	NC	25	Port 0, TX, RS232
10	NC	26	Port 0, RX, RS232
11	NC	27	Port 0, Signal reference
12	NC	28	Port 0, Instrument earth
13	Port 1, TX, RS232	29	+24 VDC input
14	Port 1, RX, RS232	30	0 VDC input
15	Port 1, Signal reference	31	Instrument earth, common
16	Port 1, Instrument earth	32	Protective earth, common