

FP02A

Single Mode 100Base-FX Fiber Optical Module With SC connector

Preliminary Data Sheet

Doc: 40444 v1.00





INTRODUCTION

Before using the LB2 Modules, read the LB2 User manual.

The Brodersen LB2 modules can be used with RTU32M series. The I/O modules are in two parts, bottom part containing the backplane bus, and top part containing the I/O board and logic. All LB2 I/O modules are hot plug.

FP02A is a communication module with 2x 100Base-Fx ports. The module is plug & Play and support Hot-Swap. The module is configured easily within the Worksuite software studio.

BACKPLANE PARTS

Description	Part Nr.
BUS module for SYS-I/O, Start	BB81A
BUS module for SYS-I/O, Middle	BB81B

VERSIONS / ORDERING CODES

Hardware basic version

Order code: FP02A

TYPE OF COMMUNICATION PORTS

Ports: 2x 100Base-FX
Type: Single-mode
Connector type: SC (1 X 9)
Typical Distance: 60Km
Wavelength: 1310nm

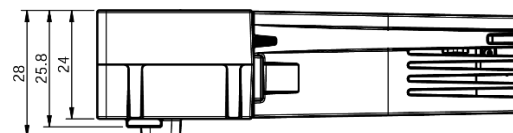
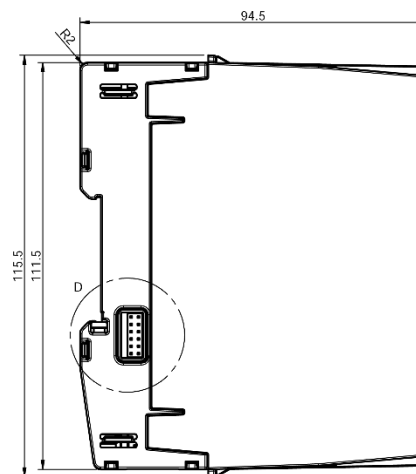
ELECTRICAL

Power consumption (from backplane bus):
 - Current consumption: 100mA (typ.) @ 12V
 - Power consumption: 1.2W (typ.)

I/O INTERFACE



MECHANICAL



Mounting	DIN 35
Width	24 mm
Height	111.5 mm
Depth	94.5 mm
Weight	102 grams



ENVIRONMENTAL CONDITIONS

Ambient temperature range:

Operating: -25°C to +75°C

Storage: -40°C to +85°C

Humidity:

0...99.8%

Marked degree of protection:

IP20

STANDARDS

EMC:

- **IEC 61000-6-2:** EMC - Immunity standard for industrial environments
- **IEC 61000-6-4:** EMC - Emission standard for industrial environments
- **IEC 50121-4:** Railway applications - EMC - Emission and immunity of the signalling and telecommunications apparatus

Safety:

- **IEC 60950-1:** Safety requirements for Information technology equipment
- **IEC 61010-1:** Safety requirements for electrical equipment for measurement, control, and laboratory use

Environmental:

- **IEC 60068-2-1:** Environmental testing - Cold
- **IEC 60068-2-2:** Environmental testing - Dry heat
- **IEC 60068-2-30:** Environmental testing - Damp heat, cyclic (12 h + 12 h cycle)
- **IEC 60068-2-78:** Environmental testing - Damp heat, steady state
- **IEC 60068-2-6:** Environmental testing - Vibration (sinusoidal)
- **IEC 60068-2-27:** Environmental testing - Shock

MODULE LED STATUS

A dual color (red/yellow) LED is provided on the module which indicates the module status (according to the table below):

Status	Yellow	Red
Normal operating	ON	OFF
Module is not configured / communication error	OFF	ON
No module power	OFF	OFF