POWER SUPPLY UNIT BPS-405, 24V/5A

AutroSafe Interactive Fire Detection System, Release 4 Product Datasheet

Features

- 24V/5A power supply
- Power Board BSF-400, including:
 - AutroFieldBus interface
 - 115VAC /230VAC input
 - 6 outputs 24VDC (max. 2A each)
 - 1 fault relay output
- Transient protection
- Battery charging temperature compensated
- Electronic current limitation
- Conforms to CE standards
- Designed to meet IEC-61508 SIL2 requirements,
 C.E.N. EN 54-2, EN 54-4 and EN 54-13 regulations, FM regulations (Factory Mutual) and the maritime SOLAS requirements (Safety Of Life At Sea)



The power supply unit is prepared for decentralized power distribution via the AutroFieldBus to panels/units in the AutroSafe Interactive Fire Detection System, release 4 or later. Note that AutroFieldBus connections require shielded cable.

The unit can be mounted inside a 19" rack or consol.

Note that, when connecting the power supply unit to an AutroSafe panel (BS-420) via AutroFieldBus, the panel will turn OFF the power on port C for a period of 3 seconds when the initialization starts.

Dipswitch Settings

Dipswitch settings for dipswitch S6 on Power Board BSF-400.

Dip- switch	Name	Description
S6-1	Earth Fault	ON: Earth fault monitoring activated OFF: Earth fault monitoring deactivated
S6-2	NA	Must be set to OFF (default)
S6-3	AutroFieldBus	ON: AutroFieldBus connected OFF: AutroFieldBus not connected
S6-4	NA	-
S6-5	Battery	ON: Battery connected OFF: Battery not connected
S6-6	Power Unit Type	ON: BPS-405 OFF: BPS-410



Part numbers to be used when mounted and delivered with other equipment

Part Number	Description	
116-BPS-405	BPS-405 PSU 24V/5A	

Part numbers to be used when boxed and delivered as a separate unit:

Part Number	Description
116-BPS-405/BOXED	BPS-405 PSU 24V/5A BOXED



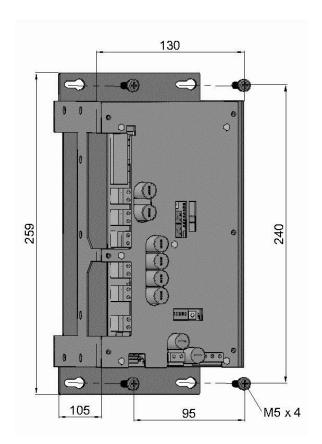
Techn	ical cr) OC	ifications				
			ilications	400.050	405		
	ions (m	m)		130x259x	k105		
Weight				1,9 kg			
Mounti				Surface n		ting	
Materia				Steel bra			
Protect	ion clas	S		Determin		tne o	uter
0 1	.			enclosure -15°C to -		. 4	
Operati							
Storage		rati	ıre	-40°C to -			٠,٨
Current				115V 3,2			
Humidi	•			Up to 959		n-cond	ensing
Inrush				< 35A in 3	10ms		
-	oltage r	ang	e	I			
115V rd				230V ran			
94 – 13	2 VAC			184 – 264	4 VAC		
<u> </u>			47 – 63 Hz				
Output				1			
Max loc	ad			Max load	with	out ba	ttery
3A				5A			
	ttery siz	е		Max batt	ery si	ze	
7,2Ah	. 1			18Ah			
Accurac							
<170m							
Efficien	cy						
>86%							
19-32V	output						
		:	-				
	ad prote	ecuc)fi				
7,5A	un o/n	ro	oower on to recove	or			
Fuses	wii o, p,	16-	Jowel on to recove	<u> </u>			
	² Fuse N	lam	o F7	Chargor ²	Euco	Nama	Ε0
10A	i use i	luiii	E 1 7	Charger ² Fuse Name F8			
Dipswit	rch S6			IUA			
Numbe		De	escription			Cond	ition
S6.1			rth fault sense	ON/OFF			
S6.2		N/		OFF (default)			
S6.3 AutroFieldBus		ON/OFF					
S6.4		N/				-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
S6.5		Battery present				ON	
S6.6			eanwell Power Sup				
(BPS-40				011			
Commo	n data	, , , ,	,				
Fuses							
Name	Location	on	Electronic fuse	Fuse	Τv	ре	Special
-					'	•	function
F1	A1		Yes, 7A	2A	Fa	st	Ī
F2	A2		Yes, 7A	2A	Fa		
F3	B1		Yes, 7A	2A	Fa		
13			Yes, 7A	2A	Fa		ĺ
F4	B2		165, /A			Jι	
	B2 C1		Yes, 7A	2A	Fa		3

1	The value is given in	Volt peak to peak ar	nd this is converted to RMS.

Miniblade fuses.

Technical specifications					
	·				
Cable parameters					
Output name	Cable size	Cable size max.			
A1					
A2					
B1		Single thread 6mm ² (10 AWG) Multi thread 4mm ² (12 AWG) Minimum thread 0,2mm ² (24 AWG)			
B2	Single thr				
C1					
C2	Minimum				
Battery					
Charger					
AutroFieldBus	Minimum Cat 5, shielded cable.				
Dipswitch S5, AutroFieldBus earth fault sense					
S5.1 ON		N = earth sense to AFB CT A			
S5.2 Of		ON = earth sense to AFB CT B			
S5.3 ON =		earth sense enable			
BSF-400					
Current consumption		85mA			

Mounting / Dimensions



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³ This port turns OFF for 3 seconds during initialization of AutroSafe if the Power Board BSF-400 is connected through AutroFieldBus.

Cooling is strongly recommended if the unit is placed in environments where the temperature during normal operation is likely to exceed $+55^{\circ}$ C (and up to $+70^{\circ}$ C) for long periods of time. Note that batteries placed in high temperatures will have reduced lifetime and need to be replaced more often.