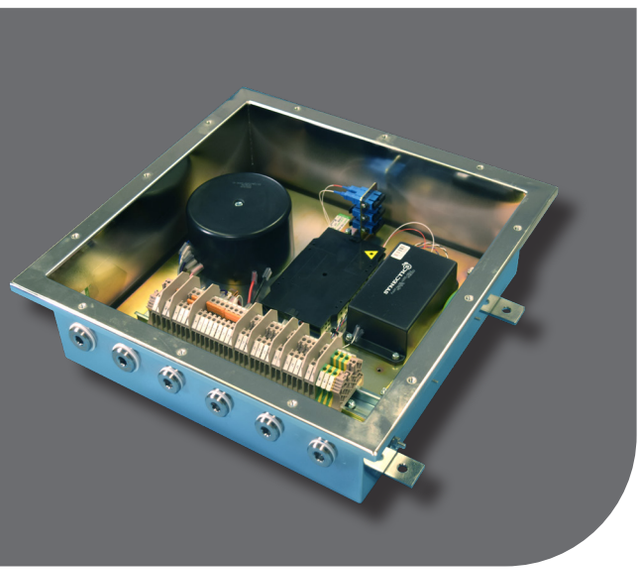
COEX™ Hazardous-Area Power Supply Unit and Media Converter

PSU-EXJB-5SS-F

The COEX™ Power Supply Unit and Media Converter has been developed to work exclusively with the C3000 range of camera stations, providing a local low voltage supply, media conversion and cable termination for hazardous-area applications.



The Power Supply Unit and Media Converter has been designed for both toughness and durability as demanded for operation in the most adverse of environments. The 316L stainless steel enclosure combined with a unique design of the Ex eb mb product eliminates the need for an Ex d junction box.

The EXJB range is unique in its ability to incorporate a transformer, terminals, media converter and the management of fiber optic cores without the need for an expensive Ex d junction box, a world first for the hazardous area CCTV industry.

Features

- Ex eb mb combined increased safety rating
- Enclosed system ensures high performance, and certified for temperatures from -55°C to +60°C ambient temperature
- Electro-polished 316L stainless steel, for maximum corrosion resistance
- IP66 and IP67 Rated

Options

- Analog video and data fiber converter
- Dual analog video and data fiber converter
- Ethernet media converter
- Singlemode or multimode
- ST or SC configuration
- Lockable front cover
- Painted finish on external surfaces
- Removable sunshield
- Various voltage options
- Certified enclosure breather

SYNECTICS

Specifications

CERTIFICATIONS / RATINGS*1	
ATEX/IECEx/UKCA	II 2 GD, Ex eb mb IIC [IIB] T5 Gb and Ex tb IIIC T94°C Db
EMC	EN61000-6-4 & EN61000-6-2
DNV	TAA00001M2
INMETRO	BRA 21.GE0019X

ENVIRONMENTAL	[OPTIONS]
Operating Temperature*2	-55°C to +60°C / -67°F to 140°F
Storage Temperature	-55°C to +80°C / -67°F to 176°F
Ingress Protection*1	IP66 & IP67 to IEC 60529
Salt Mist	Tested to IEC 60068-2-52 & IEC 60945 Section 8.12
Vibration	0.7 g test to IEC 60068-2-6 & IEC 60945
Wind Loading	Operational to 130 km/h, survival to 200 km/h

MECHANICAL	
Material	Electro-polished 316L stainless steel
Enclosure Paint	Available on request
Dimensions (W x D x H)	444 x 131 x 444 mm / 17.48" x 5.16" x 17.48"
Weight Empty	8.9 kg / 19.62 lbs
Weight Populated*2	15.5 kg / 34.17 lbs
Mounting	4 x Ø 9 mm (Ø 0.35") holes (Fixing kit included)
Standard Gland Entries*2	4 x M20, 2 x M25
Fiber Splice Provision*2	Up to 12x splice protectors

ELECTRICAL	[OPTIONS]
Input Power Options	(115 or 230) V AC 50/60 Hz ± 10%
Forward Power Rating	350 VA Maximum
Power Supply	100 VA Maximum
Inrush Current	40 A
Termination Clamp*2	[Wago Topjob S] Push-in cage clamp [Weidmuller WDU] Screw type [Weidmuller WDU SL] Screw + spring loaded cable clamp
Conductor Size (Stranded & Solid)*2	0.5 mm² - 16 mm² / 22 - 6 AWG
Typical Terminal Arrangement*2	WAGO Topjob S 32 + 3E (2004 - 0.5 mm² to 6 mm²)

FIBER MEDIA CONVERTER*3	[PSU-EXJB-5SSFA]	[PSU-EXJB-5SSFAA]	[PSU-EXJB-5SSFI]
Transmission Type	Analog Video/Data	Dual Analog Video/Data	IP
Media Converter Model	SYN8817	2 x SYN8817	SYN2041
Analog Video Input	75Ω, 1 V pk-pk nominal, 5 Hz to 8 MHz, (-3 to 1) dB		-
Data Interface	RS485; 31 kHz Manchester or Bi-phase possible in either direction		IEEE 802.3 Ethernet
Data Rate	DC to > 500 kbps at less than 15% pulse width distortion		10/100 Mbps
Operating Mode	-		Half or Full Duplex (auto sensing)
Optical Port Connector	ST or SC		ST or SC
Number of Fibers Required	1	2	2
Wavelength	Tx 1310 nm, Rx 1550 nm		1310 nm
Transmitter Optical Power	Singlemode (-13 to -6) dBm Multimode (-10 to -5) dBm		Singlemode (-15 to -7) dBm Multimode (-13 to -4) dBm
Sensitivity	< -32 dBm		< -33 dBm
Receiver Saturation	> -3 dBm		> -2 dBm
Features	[Link loss forwarding, fault detection]		Link loss forwarding, fault detection

NOTE: *1 Exact certification requirements must be specified at the time of order. *2 Dependent on certification and equipment fitted. *3 Exact interface option and media type must be specified at the time of order. Maximum transmission distance dependent on cable infrastructure quality and integrity.

PART CODE STRUCTURE

(Example)	PSU	-	EXJB-5SS	F	A	A
	A	-	B	C	D	E

A - PRODUCT MODE

PSU	Power Supply Unit

B - JUNCTION BOX MODEL

EXJB-5SS	Stainless Steel Size 5

C - COMMUNICATIONS INTERFACE

F	Fiber

D - MEDIA CONVERTER

I	SYN2041
A	SYN8817

E - ADDITIONAL MEDIA CONVERTER

	None
A	SYN8817

MANUFACTURER OF COEX CAMERA STATIONS

Reference Number:
06\DS 0605 Iss 4