

Supply modules BCS3600^{ex}-IS

Datasheet



The supply modules are used for an intrinsically safe supply (barrier) of the hand-held scanners and contain a safety barrier (evaluation barrier) for the data lines in a potentially explosive atmosphere.

The data lines can be connected from the hazardous area to non-Ex systems, e.g. PCs or PLCs, without an additional barrier/safety barrier. The data interface to be used can be set with a barcode. These adjustment possibilities make it easier for an existing old system to subsequently be converted and modified.

Universal supply module for hand-held scanner BCS3608ex-IS



Marking ATEX	Ex II 2(1)G Ex eb ma [ia Ga] IIC T4 Gb Ex II 2(1)D Ex tb [ia Da] IIIC T80 °C Db IP64
Certification	EPS 18 ATEX 1 013 X
Marking IECEx	Ex eb ma [ia Ga] IIC T4 Gb Ex tb [ia Da] IIIC T80 °C Db IP64
Certification	IECEx EPS 18.0009X
	Other approvals and certificates, see bartec.com

User environment

Operating temperature	-20 °C to +50 °C (-4 °F to 122 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to 158 °F)
Relative humidity	5 % ~ 95 % (condensing)
Protection class (IEC 60529)	IP 65
Insensitivity to ambient light	0 to 108.000 lux (in direct sunlight)

Technical data

Size (H × W × D)	81 mm x 222 mm x 88 mm (3.2 inch x 8.7 inch x 3.5 inch)
Weight	approx. 1050 g (approx. 2.31 lb)
Input voltage	DC 24 V ± 10% / 0.05 A / 0.7 W AC 100 V - 240 V ±10% / 50/60 Hz / 0.01 A / 1 W
Color	black
Material	Thermoplastic

Supported serial	Universal supply module to	PC/Host
interfaces		max. cable length
	USB-SPP*	5 m
	RS232	15 m
	RS422	1000 m
	RS485	1200 m
	* USB only works as SPP (Serial HID (Human Interface Device) is	
Data transmission/ Data processing	Unidirectional: Data can be sent from the scanner to another system via the universal supply module.	
	Note on data transmission: Bidirectional data transmiss supported.	
	Note on data processing: All serial interfaces availabl supply module have no intel	
	The interface itself is not able to process/ handle incoming data. A software application (e.g. software Keyboardwedge) is required. (not available in the scope of delivery from BARTEC).	
Connection to hand-held scanner	One hand-held scanner can be connected to the universal supply module.	
Serial parameters	The serial parameters of the Universal supply module are preset to the following parameters. The baud rate can be adjusted up to 115200 baud. The other parameters are preset and cannot	
	be reprogrammed.	
	Baud rate	9600 Baud
	Parity	None
	Stop bits	1 Bit
	Data bits	8 Bit
	Hardware Handshaking	None
	Software Handshaking	None
Warranty	1 year	
Scope of delivery	Universal supply module	
Also required	(not included in the delivery)
	 Connecting cable from universal supply module to hand-held scanner 	
	 Connecting cable from u supply module to PC/Ho commercially available s cables to avoid external Recommendation: CAT5; 	st: Please use shielded data interference.

Accessories

See datasheet: BCS3600^{ex}-IS Accessories It is absolutely necessary to use original accessories from BARTEC!

Ordering information

Universal supply module corded	17-A1Z0-0018
for hand-held scanner BCS3608ex-IS	

Universal supply module for hand-held scanner BCS3678ex-IS



Explosion protection

Marking ATEX	Ex II 2G Ex eb ma IIC T4 Gb Ex II 2D Ex tb IIIC T80 °C Db IP64
Certification	EPS 18 ATEX 1 013 X
Marking IECEx	Ex eb ma IIC T4 Gb Ex tb IIIC T80 °C Db IP64
Certification	IECEx EPS 18.0009X
	Other approvals and certificates, see bartec.com

User environment

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Color	black
Material	Thermoplastic

Supported serial	Universal supply module to PC/Host	
interfaces		max. cable length
	USB-SPP*	5 m
	RS232	15 m
	RS422	1000 m
	RS485	1200 m
	* USB only works as SPP (Serial HID (Human Interface Device) is	
Data transmission/ Data processing	Unidirectional: Data can be sent from the scanner to another system via the universal supply module.	
	Note on data transmission: Bidirectional data transmission is not supported.	
	Note on data processing: All serial interfaces availabl supply module have no inte	
	The interface itself is not ab handle incoming data. A sof (e.g. software Keyboardwed available in the scope of del	tware application ge) is required. (not
Connection to hand-held scanner	One hand-held scanner can be paired to the universal supply module (Point to Point).	
	The hand-held scanner con universal supply module via	
	The universal supply modul as a serial connection by the	
Bluetooth	Bluetooth 4.2 (LE), Class 2 Radio range (direct visual contact outside – laboratory values) with BCS3678∝ Class 2: up to 100 m (300 ft.) only when receiving data	
Serial parameters	The serial parameters of the Universal supply module are preset to the following parameters.	
	The baud rate can be adjust 115200 baud.	0.
	The other parameters are parent reprogrammed.	reset and cannot be
	Baud rate	9600 Baud
	Parity	None
	Stop bits	1 Bit
	Data bits	8 Bit
	Hardware Handshaking	None
	Software Handshaking	None
Warranty	1 year	
Scope of delivery	Universal supply module	
Also required	(not included in the delivery)	
	 Connecting cable from universal supply module to hand-held scanner 	
	 Connecting cable from universal supply module to PC/Host: Please use commercially available shielded data cables to avoid external interference. Recommendation: CAT5; similar or better 	

Accessories

See datasheet: BCS3600 ^{ex} -IS Accessories	
It is absolutely necessary to use original accesso	pries from BARTEC!

Ordering information

Universal supply module Bluetooth	17-A1Z0-0019
for hand-held scanner BCS3678ex-IS	

Supply module Ex i for hand-held scanner BCS3608ex-IS



Explosion protection	
Marking ATEX	Ex II 2(1)G Ex eb ib ma [ia Ga] IIC T4 Gb Ex II 2(1)D Ex tb ib [ia Da] IIIC T80 °C Db IP64
Certification	EPS 18 ATEX 1 013 X
Marking IECEx	Ex eb ib ma [ia Ga] IIC T4 Gb Ex tb ib [ia Da] IIIC T80 °C Db IP64
Certification	IECEx EPS 18.0009X
	Other approvals and certificates, see bartec.com

User environment

Operating temperature	-20 °C to +50 °C (-4 °F to 122 °F)
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Weight	approx. 1040 g (approx. 2.29 lb)	
Input voltage	DC 24 V ± 10% / 0.2 A / 5 W AC 100 V - 240 V ±10% / 50/60 Hz / 0.1 A / 6 W	
Color	black	
Material	Thermoplastic	

Supported serial interfaces	Universal supply modu	le to PC/Host max. cable lengt	
	USB-SPP*	5 m	
	RS232 (TTL-Pegel)	15 m	
	* USB only works as SPP (S HID (Human Interface Devi		
Data transmission/ Data processing	Unidirectional: Data can be sent from t system via the universa		
	Note on data transmission: Bidirectional data transmission is not supported.		
	All serial interfaces available on the universal supply module have no intelligence of their own		
Connection to hand-held scanner	One hand-held scanner can be connected to the supply module Ex i.		
Passive Ex i interface	Level signal	5 V	
(RS232 + USB)	Supply voltage	5 V	
	Max. input voltage	U, 6 V	
	Max. input current	I, 0.5 A	
	Max. input power	P _i 2W	
	Max. inner capacity	C _i 5,7 μF	
	Max. inner inductance	L _i OµF	
Serial parameters	cannot be reprogramm	of the supply module Ex ed and are preset to: ost Parameters (Default	
	Baud rate	9600 Baud	
	Parity	None	
	Stop bits	1 Bit	
	Data bits	8 Bit	
	Hardware Handshaking	g None	
	Software Handshaking	None	
Warranty	1 year		
Scope of delivery	Supply module Ex i		
Also required	(not included in the delivery)		
	 Connecting cable from supply module Ex i to hand-held scanner 		
	 Connecting cable from supply module Ex i to PC/Host: Please use commercially available shielded data cables to avoid external interference. Recommendation: CAT5; similar or better 		

Accessories

See datasheet: BCS3600 ex-IS Accessories	
It is absolutely necessary to use original accessories from BARTEC!	

Ordering information

Supply module Ex i corded	17-A1Z0-0025
for hand-held scanner BCS3608 ^{ex} -IS	

Supply module Ex i for hand-held scanner BCS3678^{ex}-IS



Storage temperature	-40 °C l0 +70 °C (-40 °F l0 158 °F)
Relative humidity	5 % ~ 95 % (condensing)
Protection class (IEC 60529)	IP 65
Insensitivity to ambient light	0 to 108.000 lux (in direct sunlight)

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Size $(H \times W \times D)$	81 mm x 222 mm x 88 mm (3.2 inch x 8.7 inch x 3.5 inch)
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	USB-SPP*	5 m
	RS232 (TTL-Pegel)	15 m
	* USB only works as SPP (Seria HID (Human Interface Device) is	
Data transmission/ Data processing	Unidirectional: Data can be sent from the s system via the universal su	
	Note on data transmission: Bidirectional data transmission is not supported.	
	Note on data processing: All serial interfaces available on the universal supply module have no intelligence of their owr The interface itself is not able to process/	
	handle incoming data. A so (e.g. software Keyboardwec available in the scope of de	ftware application lge) is required. (not
Connection to hand-held scanner	One hand-held scanner can be paired to the supply module Ex i (Point to Point).	
	The hand-held scanner connects to the supply module Ex i via Bluetooth. The supply module Ex i is recognised as a serial connection by the PC/host.	
Bluetooth	Bluetooth 4.2 (LE), Class 2 Radio range (direct visual contact outside – laboratory values) with BCS3678® Class 2: up to 100 m (300 ft.) only when receiving data	
Passive Ex i interface	Level signal	5 V
(RS232 + USB)	Supply voltage	5 V
	Max. input voltage	U _i 6 V
	Max. input current	I, 0.5 A
	Max. input power	P _i 2W
	Max. inner capacity	C _i 5.7 μF
	Max. inner inductance	L _i O µF
Serial parameters	The serial parameters of the supply module Ex i cannot be reprogrammed and are preset to: RS232 and USB-SPP Host Parameters (Default)	
	Baud rate	9600 Baud
	Parity	None
	Stop bits	1 Bit
	Data bits	8 Bit
	Hardware Handshaking	None
	Software Handshaking	None
Warranty	1 year	
Scope of delivery	Supply module Ex i	
Also required	(not included in the delivery)	
	 Connecting cable from s to PC/Host: Please use of available shielded data external interference. R CAT5; similar or better 	commercially cables to avoid

Accessories

See datasheet: BCS3600^{ex}-IS Accessories It is absolutely necessary to use original accessories from BARTEC!

Ordering information

Supply module Ex i Bluetooth for hand-held scanner BCS3678^{ex}-IS 17-A1Z0-0028