BCS3600^{ex}-IS Hand-held scanner

Supply modules



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.

- Certified for Zone 1 and Div. 1 hazardous areas
- Enables connection of scanner to non-Ex systems
- Variety of serial interfaces and connecting cables supported
- Max. cable length 1.200 m
- Compatible with Ex i and Ex e host interfaces

Universal supply module

for BCS3608ex-IS Hand-held scanner

Explosion protection

Marking ATEX	ⓑ II 2(1)G Ex eb ma [ia Ga] IIC T4 Gb ⓑ II 2(1)D Ex tb [ia Da] IIIC T80 ℃ 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 $\ensuremath{\mathsf{bartec.com}}$

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

81 mm x 222 mm x 88 mm (3.2 inch x 8.7 inch x 3.5 inch)	
approx. 1050 g (approx. 2.31 lb)	
DC 24 V ± 10% / 0.05 A / 0.7 W AC 100 V - 240 V ±10% / 50/60 Hz / 0.01 A / 1 W	
black	
Thermoplastic	
Universal supply module to PC/Host max. cable length	
USB-SPP*	5 m
RS232	15 m
RS422	1000 m
RS485	1200 m
* USB only works as SPP (Serial Port Profile), HID (Human Interface Device) is not supported.	
One hand-held scanner can be connected to the universal supply module.	
	(3.2 inch x 8.7 inch x 3.5 i approx. 1050 g (approx. 2 DC 24 V ± 10% / 0.05 A / (AC 100 V - 240 V ±10% / S black Thermoplastic Universal supply module USB-SPP* RS232 RS422 RS485 * USB only works as SPP (Se HID (Human Interface Device One hand-held scanner of

Data transmission/ Data processing	Unidirectional: Data can be sent from the sca system via the universal supp	
	Note on data transmission: Bidirectional data transmissio supported.	on is not
	Note on data processing: All serial interfaces available supply module have no intellig	
	The interface itself is not able handle incoming data. A softw (e.g. software Keyboardwedge available in the scope of delive	vare application e) is required. (not
Serial parameters	The serial parameters of the Universal supply module are preset to the following parameters.	
	The baud rate can be adjusted 115200 baud.	d up to
	The other parameters are pres be reprogrammed.	set and cannot
	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 uni module to hand-held scan 	11.5
	 Connecting cable from uni supply module to PC/Host commercially available shi cables to avoid external in Recommendation: CAT5; si 	: Please use ielded data terference.

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 BCS3608ex-IS Hand-held scanner	

Universal supply module

for BCS3678^{ex}-IS Hand-held scanner

Explosion protection

🖾 II 2G Fx eb ma IIC T4 Gb
II 2D Ex tb IIIC T80 °C Db IP64
EPS 18 ATEX 1 013 X
Ex eb ma IIC T4 Gb Ex tb IIIC T80 °C Db IP64
ECEx EPS 18.0009X

Other approvals and certificates, see $\ensuremath{\mathsf{bartec.com}}$

User environment

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Technical data

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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)	
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 interfaces	Universal supply module to PC/Host max. cable leng	
	USB-SPP*	5 m
	RS232	15 m
	RS422	1000 m
	RS485	1200 m
	* USB only works as SPP (Serial F HID (Human Interface Device) is r	
Connection to hand-held scanner	One hand-held scanner can be paired to the universal supply module (Point to Point).	
	The hand-held scanner conn universal supply module via	
	The universal supply module as a serial connection by the	0

Data transmission/ Data processing	Unidirectional: Data can be sent from the s system via the universal su	
	Note on data transmission Bidirectional data transmis supported.	-
	Note on data processing: All serial interfaces availab supply module have no inte	
	The interface itself is not ab handle incoming data. A so (e.g. software Keyboardweo available in the scope of de	ftware application lge) is required. (not
Bluetooth	Bluetooth 4.2 (LE), Class 2 Radio range (direct visual contact outside – laboratory values) with BCS3678 ^{ex} Class 2: up to 100 m (300 ft.) only when receiving data	
Serial parameters	The serial parameters of the	
	module are preset to the following parameters.	
	The baud rate can be adjusted up to 115200 baud.	
	The other parameters are p 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	
Warranty Scope of delivery		
,	1 year	/)
Scope of delivery	1 year Universal supply module	iniversal supply

Accessories

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

Ordering information

Universal supply module Bluetooth	17-A1Z0-0019
for BCS3678 ^{ex} -IS Hand-held scanner	

Supply module Ex i

for BCS3608^{ex}-IS Hand-held scanner

Explosion protection

Marking ATEX	ⓑ II 2(1)G Ex eb ib ma [ia Ga] IIC T4 Gb ⓑ II 2(1)D Ex tb ib [ia Da] IIIC T80 ℃ 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 $\ensuremath{\mathsf{bartec.com}}$

User environment

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Protection class (IEC 60529)	IP 65
Insensitivity to ambient light	0 to 108.000 lux (in direct sunlight)

Technical data

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)	
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 module to PC/Host max. cable length	
	USB-SPP*	5 m
	RS232 (TTL-Pegel)	15 m
	* USB only works as SPP (Serial Port Profile), HID (Human Interface Device) is not supported.	
Connection to hand-held scanner	One hand-held scanner can be connected to the supply module Ex i.	

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 available on the universal supply module have no intelligence of their own. 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).		
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	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 Handshakin	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 BCS3608 ^{ex} -IS Hand-held scanner	

Supply module Ex i

for BCS3678^{ex}-IS Hand-held scanner

Explosion protection

Marking ATEX	ⓑ II 2G Ex eb ib ma IIC T4 Gb ⓑ II 2D Ex tb ib IIIC T80 ℃ Db IP64
Certification	EPS 18 ATEX 1 013 X
Marking IECEx	Ex eb ib ma IIC T4 Gb Ex tb ib IIIC T80 °C Db IP64
Certification	IECEx EPS 18.0009X

Other approvals and certificates, see $\ensuremath{\mathsf{bartec.com}}$

User environment

Operating temperature	-20 °C to +50 °C (-4 °F to 122 °F)
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Color	black	
Material	Thermoplastic	
Supported serial interfaces	Universal supply module to PC/Host max. cable length	
	USB-SPP*	5 m
	RS232 (TTL-Pegel)	15 m
	* USB only works as SPP (Serial Port Profile), HID (Human Interface Device) is not supported.	
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.	

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 available on the universal supply module have no intelligence of their own. The interface itself is not able to process/ handle incoming data. A software application (e.g. software Keyboardwedge) is required. (not	
Bluetooth	available in the scope of delivery from BARTEC). Bluetooth 4.2 (LE), Class 2 Radio range (direct visual contact outside – laboratory values) with BCS3678 ^{ex} 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, 6 V
	Max. input current	I, 0.5 A
	Max. input power	P _i 2 W
	Max. inner capacity	C _i 5.7 μF
	Max. inner inductance	L _i 0 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 supply module Ex i to PC/Host: Please use commercially available shielded data cables to avoid external interference. Recommendation: CAT5; similar or better 	

Accessories

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Ordering information

Supply module Ex i Bluetooth	
for BCS3678ex-IS Hand-held scanner	

17-A1Z0-0028