

5ACCKP05.xxxx-000

1 General information

5ACCKP05.xxxx-000 expansion units are equipped with various operating elements as well as interfaces (e.g. USB, RFID). They can be installed in Automation Panel 5230.

- Expansion units
- Front USB interface
- Blue, green and red pushbuttons
- Key switch
- Emergency stop
- RFID read/write unit

2 Order data


Model number	Short description	Figure
	Expansion units	
5ACCKP05.185B-000	AP5000 swing arm expansion option - Expansion unit - 1x RFID read/write unit - 1x emergency stop - 3x pushbutton (red, green, blue) - 1x key switch - 1x front USB interface - For panel 5AP5230.185B/185C-000	
5ACCKP05.215C-000	AP5000 swing arm expansion option - Expansion unit - 1x RFID read/write unit - 1x emergency stop - 3x pushbutton (red, green, blue) - 1x key switch - 1x front USB interface - For panel 5AP5230.215C-000	
5ACCKP05.240C-000	AP5000 swing arm expansion option - Expansion unit - 1x RFID read/write unit - 1x emergency stop - 3x pushbutton (red, green, blue) - 1x key switch - 1x front USB interface - For panel 5AP5230.240C-000	

Table 1: 5ACCKP05.185B-000, 5ACCKP05.215C-000, 5ACCKP05.240C-000 - Order data

3 Technical data

Information:

The following specified characteristic data, features and limit values are only valid for these individual components and may differ from those of the complete system. The data specified for the complete system applies to the complete system in which this individual component is used, for example.

Model number	5ACCKP05.185B-000	5ACCKP05.215C-000	5ACCKP05.240C-000
General information			
Certifications			
CE		Yes	
FCC		Contains FCC ID: 2ADJV-RFM-2-NF	
UL		cULus E115267	Industrial control equipment
Interfaces			
USB			
Quantity		1	
Type		USB 2.0	
Variant		Type A	
Transfer rate		Low speed (1.5 Mbit/s), full speed (12 Mbit/s) to high speed (480 Mbit/s)	
Current-carrying capacity		500 mA	
RFID read/write transponder unit			
Variant		RFM-2-NF	
Type		ELATEC TWN4 MultiTech Nano	
Frequency		Short range device (SRD) 13.56 MHz	
Output power		Max. 8.13 dB μ A/m @10 m	
Standard		ISO14443A/B, ISO15693, ISO18092 / ECMA-340 (NFC)	
Read/Write range in air		Up to 2 cm (depends on transponder)	

Table 2: 5ACCKP05.185B-000, 5ACCKP05.215C-000, 5ACCKP05.240C-000 - Technical data

Model number	5ACCKP05.185B-000	5ACCKP05.215C-000	5ACCKP05.240C-000
Features			
Pushbuttons			
Quantity	3 (blue, green, red)		
Type	RAFIX 22 FS+, 1.30.270.021/2600 (blue), 1.30.270.021/2500 (green), 1.30.270.021/2300 (red)		
Contact element	Momentary		
Key switch			
Quantity	1		
Type	RAFIX 22 FS 1.30.255.222/0000		
Contact element	Maintained		
Emergency stop			
Quantity	1		
Type	RAFIX 22 FS+, Plus 1, 1.30.273.512/0300		
Contact element	Maintained		
Operating conditions			
Pollution degree per EN 61131-2	Pollution degree 2		
Mechanical properties			
Material	Steel sheet		
Weight	900 g	1000 g	1100 g

Table 2: 5ACCKP05.185B-000, 5ACCKP05.215C-000, 5ACCKP05.240C-000 - Technical data

4 B&R wireless assembly

B&R wireless assembly RFM-2-NF of 5ACCKP03.xxxx-000 or 5ACCK05.xxxx-000 expansion units consists of the following wireless module:

- SRD (RFID/NFC) module TWN4 MultiTech Nano from Elatec with circuit board antenna from B&R.

The B&R wireless assembly must be connected internally to the system using the USB 2.0 cable.

4.1 Drivers, software and documentation

Drivers, software tools and documentation for approved operating systems are available for download in the Downloads section of the B&R website (www.br-automation.com). The software packages for the TWN4 MultiTech Nano must be used.

5 USB interface

The expansion unit is equipped with a USB 2.0 interface. This is equipped with a protective cover.

Caution!

IP65 protection can only be achieved if the USB protective cover is properly installed.

Warning!

USB peripheral devices can be connected to the USB interfaces. Due to the variety of USB devices available on the market, B&R cannot guarantee their functionality. The functionality of USB devices available from B&R is guaranteed.

Caution!

Due to the general PC specification, this interface must be handled with the utmost care with regard to EMC, cable routing, etc.

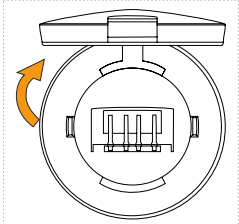
The USB interface is internally connected to the system via USB 2.0 and available to the user for service purposes. Depending on the transfer method (SDL, DVI, SDL3 or SDL4 operation), there may be limitations with regard to the transfer rate of the USB interfaces. For possible transfer methods, see section "Connection options" of the Automation Panel 5000 user's manual.

Transfer method	USB type	Max. cable length
SDL operation mode 1	USB 1.1	25 m ¹⁾
SDL operation mode 2	USB 2.0	5 m
Single-touch DVI operation	USB 2.0	5 m
Multi-touch DVI operation	USB 2.0	5 m
SDL3 operation	USB 2.0	100 m
SDL4 operation	USB 2.0	100 m

- 1) The max. cable length of depends on the resolution. For exact specifications, see table "Cable lengths and resolutions for SDL transfer" in the AP5000 user's manual.

Front USB of the expansion unit ¹⁾		
Type	USB 2.0	
Variant	Type A	
Transfer rate	Low speed (1.5 Mbit/s)	
	Full speed (12 Mbit/s)	
	High speed (480 Mbit/s) ²⁾	
Current-carrying capacity ³⁾	Max. 0.5 A	
Cable length		
	USB 2.0	<3 m (without hub)
	-	

1x USB type A, female



- 1) The interfaces, etc. available on the device or module have been numbered for the purpose of clear differentiation. This numbering may deviate from the numbering used by the respective operating system, however.
- 2) In SDL operation, the USB transfer rate is limited to USB 1.1.
 In SDL3 operation: Low speed (1.5 Mbit/s), full speed (12 Mbit/s) to high speed (30 Mbit/s)
 In SDL4 operation: Low speed (1.5 Mbit/s), full speed (12 Mbit/s) to high speed (150 Mbit/s)
- 3) The USB interface is protected by a maintenance-free "USB current-limiting switch" (max. 0.5 A).