

4PP065.IF33-1

1 Order data


Model number	Short description	Figure
	Interface modules	
4PP065.IF33-1	PP65 interface module, 2 CAN interfaces electrically isolated and network-capable, order 0TB704 terminal block separately	
	Required accessories	
	Terminal blocks	
0TB704.9	Accessory terminal block, 4-pin, screw clamp terminal block 2.5 mm ²	
0TB704.91	Accessory terminal block, 4-pin, push-in terminal block 2.5 mm ²	
	Optional accessories	
	Infrastructure components	
0AC913.93	Bus adapter, CAN bus, 2 CAN bus interfaces, including 03 m attachment cable (TB704)	

Table 1: 4PP065.IF33-1 - Order data

2 Technical data

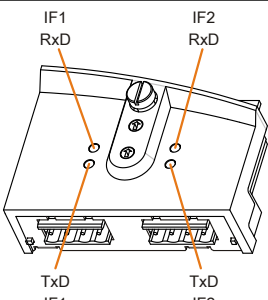
Model number	4PP065.IF33-1
Short description	
Communication module	2x CAN bus
General information	
B&R ID code	0xB0BD
Status indicators	Data transfer for IF1 and IF2
Diagnostics	
Data transfer	Yes, using LED status indicators
Electrical isolation	
IF1 - IF2	Yes
PLC - IF1	Yes
PLC - IF2	Yes
Certifications	
CE	Yes
UL	cULus E115267 Industrial control equipment
Interfaces	
Interface IF1	
Type	CAN bus
Variant	1x 4-pin male multipoint connector
Max. distance	1000 m
Max. transfer rate	1000 kbit/s
Network-capable	Yes
Terminating resistor	Integrated in the module, switchable
Controller	SJA 1000
Max. transfer rate	
Bus length ≤25 m	1 Mbit/s
Bus length ≤60 m	500 kbit/s
Bus length ≤200 m	250 kbit/s
Bus length ≤1000 m	50 kbit/s
Interface IF2	
Type	CAN bus
Variant	1x 4-pin male multipoint connector
Max. distance	1000 m
Max. transfer rate	1000 kbit/s
Network-capable	Yes
Terminating resistor	Integrated in the module, switchable
Controller	SJA 1000
Max. transfer rate	
Bus length ≤25 m	1 Mbit/s
Bus length ≤60 m	500 kbit/s
Bus length ≤200 m	250 kbit/s
Bus length ≤1000 m	50 kbit/s
Operating conditions	
Degree of protection	IP20

Table 2: 4PP065.IF33-1 - Technical data

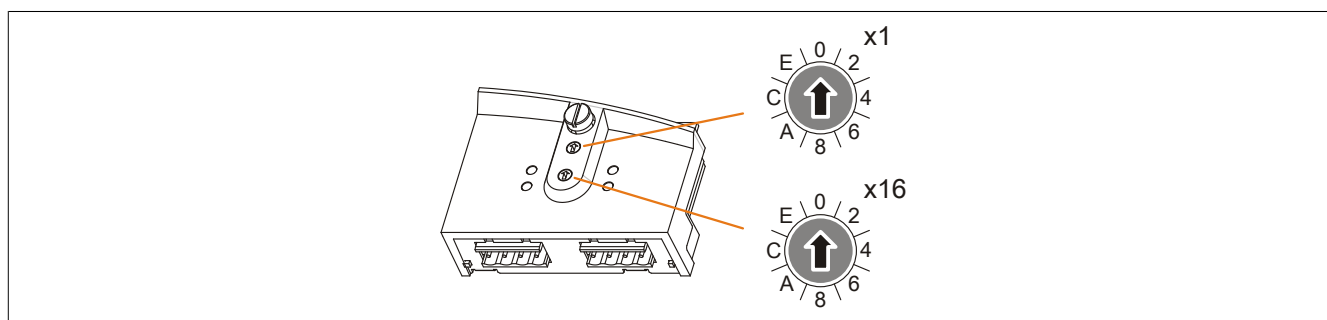
Model number	4PP065.IF33-1
Ambient conditions	
Temperature	
Operation	0 to 50°C
Storage	-25 to 70°C
Transport	-25 to 70°C
Relative humidity	
Operation	10 to 90%, non-condensing
Storage	10 to 90%, non-condensing
Transport	10 to 90%, non-condensing
Mechanical properties	
Weight	46 g
Slot	PP65 insert
Torque for mounting screw	Max. 0.6 Nm

Table 2: 4PP065.IF33-1 - Technical data

3 LED status indicators

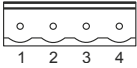
Figure	LED	Color	Status	Description
	RxD	Orange	On	Module receiving data via the RS232 interface
	TxD	Orange	On	Module transmitting data via the X2X Link interface
	IF1 ... CAN bus interface 1			
	IF2 ... CAN bus interface 2			

4 CAN bus node number



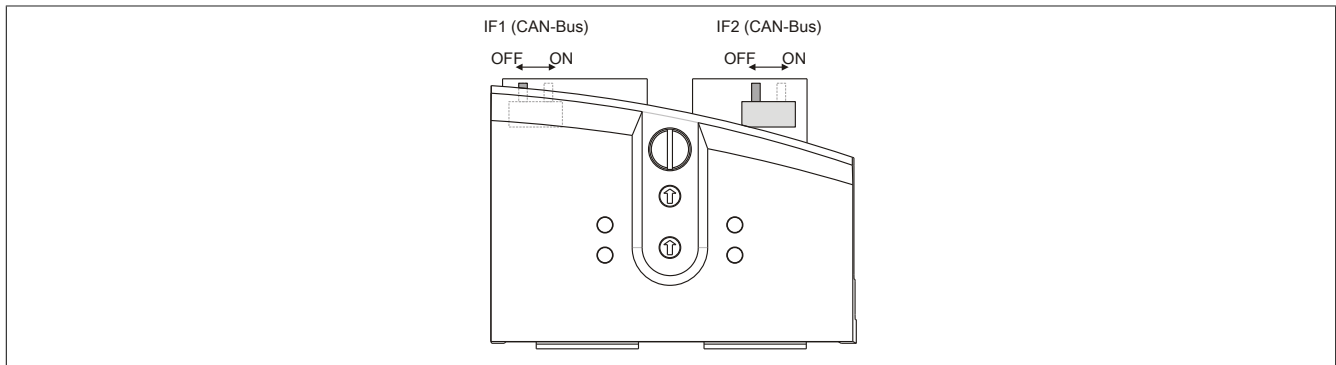
The node number for the CAN bus interfaces is set with the two hex switches. The configured node number applies to both interfaces.

5 CAN bus interface (IF1 and IF2)

Interface	Pinout		
CAN bus interface  4-pin male multipoint connector	Pin	CAN bus	
	1	CAN_H	CAN high
	2	CAN_L	CAN ground
	3	CAN_L	CAN low
	4	SHLD	Shield

6 Terminating resistors

Two switches are located on the back of the interface module that can be used to switch on a terminating resistor for the CAN bus interfaces IF1 and IF2.



Interface	Switch position	Description
IF1 (CAN bus)	ON	Terminating resistor enabled (120 Ω)
	OFF	Terminating resistor disabled
IF2 (CAN bus)	ON	Terminating resistor enabled (120 Ω)
	OFF	Terminating resistor disabled

7 I/O mapping in Automation Studio

Data points for interfaces IF1 and IF2 are available in the I/O mapping in Automation Studio.

I/O mapping for IF1

Channel name	Data type	Description
NodeSwitch	USINT	Hexadecimal value of the node number switch (identical with NodeSwitch of IF2).
TerminatingResistor ¹⁾	BOOL	State of the switch for the IF1 terminating resistor: 0 ... OFF: Terminating resistor disabled 1 ... ON: Terminating resistor enabled

1) TerminatingResistor only available in Automation Runtime A4.32 and later.

I/O mapping for IF2

Channel name	Data type	Description
NodeSwitch	USINT	Hexadecimal value of the node number switch (identical with NodeSwitch of IF1).
TerminatingResistor ¹⁾	BOOL	State of the switch for the IF2 terminating resistor: 0 ... OFF: Terminating resistor disabled 1 ... ON: Terminating resistor enabled

1) TerminatingResistor only available in Automation Runtime A4.32 and later.