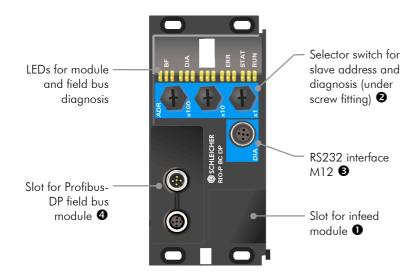
## SCHLEICHER

#### **Bus Coupler PROFIBUS-DP**

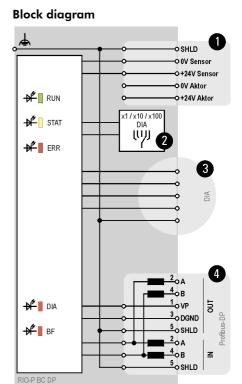
#### **RIO-P BC DP**



The RIO-P BC DP bus coupler forms the interface between the Profibus-DP field bus and module communication to the I/O modules. A bus node comprises the bus coupler and up to eight expansion modules with 64 digital channels.

The bus coupler automatically sets the correct baud rate up to 12 Mbaud and supports advanced Profibus-DP diagnosis. In order to achieve compatibility with various PLC standards you can use the byte-swap function to swap the two bytes of a data word.

The RIO-P BC DP bus coupler offers not only run mode but also other modes for commissioning, diagnosis and comprehensive service functions. These are operated via the RIO.worx software tool. On controllers with a shortage of address space the diagnosis range can be switched off. This reduced the data width for transmission by 4 bytes.



Technical Data	RIO-P BC DP
Article number	383 382 72
Field bus	Profibus-DP
Slave address	Address range 0 126, setting via rotary and DIP switches
Baud rate	Up to 12 Mbaud, setting automatic
Diagnosis interface	Switch on/off via DIP switches
Max. I/O range internal	64 bytes input data 64 bytes output data
External supply voltage	DC 24 V (±20%, max. 5% residual ripple)
Power consumption	Bus coupler: < 2.5 W from external 24 V supply Connected modules: max. 5 W via internal 5 V supply
Number of attachable I/O modules	8
Interfaces	
RS 232	External, for commissioning and system diagnosis
Profibus-DP	External, via field bus module RIO-P F DP
For general technical data see next page	

# **General Technical Data**

Interference emissions



### **Technical Data RIO Protected IP67**

Supply voltage	
Operating voltage	24 V DC ± 20% max. 5% residual ripple
Connection system	
Sensors / actuators	M12 connectors 5-pin
Field bus	M12 connectors 5-pin
Supply voltage	Depending on infeed module: CA, 7/8" or M23
Housing and installation	
Type of protection	IP 67 to EN 60529
Dimensions (W x H x D)	70 x 140 x 45 mm (bus coupler and I/O modules)
Fixing	On electrically conductive surface with at least two diagonally opposed fixing points (for normal mechanical load) with M4 screws
Installation Position	Any
Climatic conditions	
Ambient operating temperature	0 +55°C (category KV to DIN 40040)
Storage temperature	–25 +70°C (category HS to DIN 40040)
Relative humidity	100%
Air pressure in operation	860 1060 hPa
Mechanical strength	
Vibration	10 57 Hz constant amplitude 0.075 mm 57 150 Hz constant acceleration 1 g (to DIN IEC 68-2-6)
Electromagnetic compatibility	
Electrostatic discharge	EN 61000-4-2: 8 kV contact discharge
Electromagnetic fields	EN 61000-4-3: field intensity 10 V/m, 80 1000 MHz
Burst	EN 61000-4-4: 2 kV on DC supply lines, 1 kV on I/O signal and serial interface lines

EN 55011: Limit Category A, Group 1