

MBK - Compact I/O modules



Bus modules MBK
Profibus-DP

Input modules

Protection IP20

MBK-P
16 digital inputs

MBK-P
32 digital inputs



Ordering data		Art.-No.	Art.-No.
Inputs		55400	55401
Screw terminal block	Set: 3 pieces	55420	55440
Spring clamp terminal block	Set: 3 pieces	55421	55441
Field bus			
Supply voltage		24 V DC (18...30.2 V), to EN 61131-2, < 100 mA	
Type		Profibus-DP slave	
Transfer rate		Profibus-DP to EN 50170	
Modes		freeze-mode is supported	
Transfer rate		up to 12 MBit/s	
Addressing		BCD rotary switch, 3...99	
Inputs			
Type		1-, 2-, 3- or 4-wire, EN 61131-2 conform	
Supply voltage		24 V DC (18...30.2 V), to EN 61131-2, < 1.6 A overload protected	
LED indicator		1 LED per input, integrated in the label	
Diagnostic			
Field bus		RUN-LED	
Under voltage		LED and alarm to master	
Short-circuit sensor		LED and combined alarm to the master	
General data			
Temperature range		0...+55 °C	
Mounting method		DIN-rail mounting to EN 60715	
Dimensions	H x W x D	155 x 130 x 51 mm	

Bus modules MBK Profibus-DP

Output modules

Protection IP20

MBK-P DO16/0.5 A

16 digital outputs 0.5 A



Ordering data		Art.-No.
Outputs		55402
Screw terminal block	Set: 3 pieces	55435
Spring clamp terminal block	Set: 3 pieces	55438
Field bus		
Supply voltage	24 V DC (18...30.2 V), to EN 61131-2, < 100 mA	
Type	Profibus-DP slave	
Transfer rate	Profibus-DP to EN 50170	
Modes	sync-mode is supported	
Transfer rate	up to 12 MBit/s	
Addressing	BCD rotary switch, 3...99	
Outputs		
Type	p-switching, 2- or 3-wire connection	
Supply voltage	24 V DC (18...30.2 V), to EN 61131-2, I total ≤ 8 A	
Switching current	0.5 A per output, short-circuit and overload protected	
Filament lamp load	2 W per output	
Max. switching frequency	resistive load: 100 Hz; inductive load: 1...4 Hz (dependent on current load per output)	
LED indicator	1 LED per input, integrated in the label	
Diagnostic		
Field bus	RUN-LED in the label	
Under voltage	LED and alarm to master	
Short-circuit output	LED and alarm to master, each channel individually	
General data		
Temperature range	0...+55 °C	
Mounting method	DIN-rail mounting to EN 60715	
Dimensions	H x W x D	155 x 130 x 51 mm

Accessories		Art.-No.
Bus connector	up to 12 MBit/s with switchable bus terminator	55762
Bus connector	up to 12 MBit/s with switchable bus terminator and additional PG-socket	55766
Profibus cable	per meter	55770
Manual	german/english	up-to-date manuals can be downloaded under www.murrelektronik.com
GSD-/Type data		up-to-date manuals can be downloaded under www.murrelektronik.com

Notes		Wiring and dimension diagrams from page 2.4.5 onwards.
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Bus modules MBK Profibus-DP

Input/output modules

Protection IP20

MBK-P

16 digital inputs/outputs 0.5 A



Ordering data		Art.-No.
16 digital inputs/outputs 0.5 A		55405
Screw terminal block	Set: 3 pieces	55434
Spring clamp terminal block	Set: 3 pieces	55437
Field bus		
Supply voltage	24 V DC (18...30.2 V), to EN 61131-2, < 100 mA	
Type	Profibus-DP slave	
Transfer rate	Profibus-DP to EN 50170	
Modes	sync- and freeze-mode are supported	
Transfer rate	up to 12 MBit/s	
Addressing	BCD rotary switch, 3...99	
Inputs		
Type	1-, 2-, 3- or 4-wire, EN 61131-2 conform	
Supply voltage	24 V DC (18...30.2 V), to EN 61131-2, < 1.6 A	
LED indicator	1 LED per input, integrated in the label	
Outputs		
Type	p-switching, 2- or 3-wire connection	
Supply voltage	24 V DC (18...30.2 V), to EN 61131-2, I total ≤ 8 A	
Switching current	0.5 A per output, short-circuit and overload protected	
Filament lamp load	2 W per output	
Max. switching frequency	resistive load: 100 Hz; inductive load: 1...4 Hz (dependent on current load per output)	
LED indicator	1 LED per input, integrated in the label	
Diagnostic		
Field bus	RUN-LED in the label	
Under voltage	LED and alarm to master	
Short-circuit sensor	LED and combined alarm to the master	
Short-circuit output	LED in the label and combined alarm to the master	
General data		
Temperature range	0...+55 °C	
Mounting method	DIN-rail mounting to EN 60715	
Dimensions	H x W x D	155 x 130 x 51 mm
Accessories		Art.-No.
Bus connector	up to 12 MBit/s with switchable bus terminator	55762
Bus connector	up to 12 MBit/s with switchable bus terminator and additional PG-socket	55766
Profibus cable	per meter	55770
Common screw terminal	1-row Art.-No. 55422 / 2-row Art.-No. 55423 / 3-row Art.-No. 55424	
Common spring clamp terminal	1-row Art.-No. 55426 / 2-row Art.-No. 55427 / 3-row Art.-No. 55428	
Manual	german/english	up-to-date manuals can be downloaded under www.murrelektronik.com
GSD-/Type data	up-to-date manuals can be downloaded under www.murrelektronik.com	
Notes		
		Wiring and dimension diagrams from page 2.4.5 onwards.