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Important Note

The information shown in these documents is for guidance only. No liability is accepted for any errors or omissions. The designer or user is solely responsible for the safe and proper application of the parts, assemblies or equipment described.

Zuordnung der Ventile

Die Adressvergabe der Ventilplätze auf der LPP Ventilinsel erfolgt von links nach rechts. Jeder Ventilplatz hat je nach montierten Ventiltyp eine feste Adresse. Bistabile Ventiltypen belegen zwei Adressen, monostabile Ventiltypen nur eine Adresse.

Allocation of Valves

The addresses of the valve ports on the LPP valve island are allocated from left to right. Every valve port has a set address, depending on the valve type installed. Bistable valves are given two addresses, monostable valve types just one address.

		Ventilplatz / Valve port																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Anzahl der bistabilen Ventile Number of bistable valves	0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.1	1.2	2.5	2.4	2.3	2.2	2.1	2.0	1.7
	1	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.1	1.2	2.5	2.4	2.3	2.2	2.1	2.0	1.7
		1.3																	
	2	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.1	1.2	2.5	2.4	2.3	2.2	2.1	2.0	1.7
		1.3																	
	3	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.1	1.2	2.5	2.4	2.3	2.2	2.1	2.0	1.7
		1.3																	
	4	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.1	1.2	2.5	2.4	2.3	2.2	2.1	2.0	1.7
		1.3																	
	5	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.1	1.2	2.5	2.4	2.3	2.2	2.1	2.0	1.7
		1.3																	
	6	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.1	1.2	2.5	2.4	2.3	2.2	2.1	2.0	1.7
1.3		1.4																	
7	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.1	1.2	2.5	2.4	2.3	2.2	2.1	2.0	1.7	
	1.3																		1.4
8	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.1	1.2	2.5	2.4	2.3	2.2	2.1	2.0	1.7	
	1.3																		1.4
9	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.1	1.2	2.5	2.4	2.3	2.2	2.1	2.0	1.7	
	1.3																		1.4
10	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.1	1.2	2.5	2.4	2.3	2.2	2.1	2.0	1.7	
	1.3																		1.4
11	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.1	1.2								

Address 1.7
Group number
Channel number

Bestellbezeichnungen

LPP Valve Island 770 PB 77.050.0070

Zubehör

Anschlusskabel 24V, M12		
	0,3 m	77.061.0300
	1,0 m	77.061.1000
	5,0 m	77.061.5000
PROFIBUS, gerader Stecker einseitig, M12		
	1,0 m	77.081.1000
	5,0 m	77.081.5000
PROFIBUS, gerader Stecker doppelseitig, M12		
	1,0 m	77.082.1000
	5,0 m	77.082.5000
PROFIBUS, 90° Stecker einseitig, M12		
	1,0 m	77.083.1000
	5,0 m	77.083.5000
PROFIBUS, 90° Stecker doppelseitig, M12		
	0,3 m	77.084.0300
	1,0 m	77.084.1000
	5,0 m	77.084.5000

Bedienungsanleitung E 660 D

deutsch

Kuhnke GmbH, www.kuhnke.com

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Order references

LPP Valve Island 770 PB 77.050.0070

Accessories

Power cable 24 V, M12		
	0,3 m	77.061.0300
	1,0 m	77.061.1000
	5,0 m	77.061.5000
PROFIBUS, straight connector single sided, M12		
	1,0 m	77.081.1000
	5,0 m	77.081.5000
PROFIBUS, straight connec. double sided, M12		
	1,0 m	77.082.1000
	5,0 m	77.082.5000
PROFIBUS, 90° connector single sided, M12		
	1,0 m	77.083.1000
	5,0 m	77.083.5000
PROFIBUS, 90° connector double sided, M12		
	0,3 m	77.084.0300
	1,0 m	77.084.1000
	5,0 m	77.084.5000

Instruction manual E 660 GB

english

10042620 / 5 January 2005

10042620 5 January 2005

LPP Valve Island 770 PB

77.050.0070

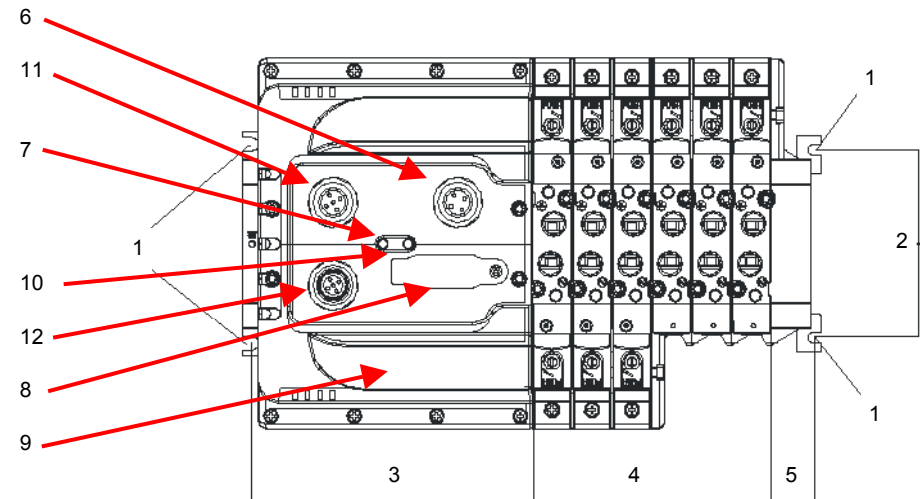
Dezentrale Ventilinsel in IP 65
PROFIBUS DP, max. 22 Ventile

Remote Valve Island in IP 65
PROFIBUS DP, max. 22 valves

KUHNKE

Frontansicht

Front view



Legende

Abmessungen

- 4 Bohrungen für Wandmontage
- 75 mm
- 121,3 mm
- 16 mm je Anschlussplatte
- 16 mm

Allgemein

- Stromversorgung 24 V DC "power"
- LED¹ Systemstatus
- Kodierschalter
- Beschriftungsfeld

Bus, PROFIBUS Schnittstelle

- Status-LED
- Anschluss „bus in“ (Stifte)
- Anschluss „bus out“ (Buchsen)

¹⁾ LEDs sind Licht emittierende Dioden Klasse 1 (gem. EN60825-1)

deutsch

10042620
5 January 2005

Legend

Dimensions

- 4 holes for fixing to the wall
- 75 mm
- 121,3 mm
- 16 mm x number of baseplates
- 16 mm

General

- Power supply 24 V DC "power"
- LED¹ system status
- Coding switch
- Inscription field

Bus, PROFIBUS interface

- Status LED
- Connection „bus in“ (male)
- Connection „bus out“ (female)

¹⁾ LEDs are light emitting diodes, class 1 (in acc. with EN60825-1)

english

Systemdaten

Funktion

Die Busanschaltung der LPP Valve Island 770 PB erlaubt die Ansteuerung von bis zu 22 Magnetspulen (Outputs) auf einer Ventilinsel, die individuell aufgebaut werden kann.

Technische Daten

Bauart:

kompaktes Kunststoffgehäuse auf Metallschiene für LPP 770 Ventile
Schutzart: IP 65 (bei bedeckten Anschlüssen)
Abmessungen: siehe Katalog P 609

Zulässige Umgebungsbedingungen:

Lagertemperatur: -10...+55 °C
Betriebs-Umgebungstemperatur: 0...50 °C

Versorgungsanschluss, "power"

System und Ausgänge: 24 V DC -10%/+10%
Anschluss: M12 Rundsteckverbinder 5 pol, Stifte
Steckerbelegung:

Pin	Funktion
1	+24 V DC Versorgung System
2	+24 V DC Versorgung Ausgänge
3	0 V
4	0 V

PROFIBUS DP Busanschluss

Übertragungsrate: bis 12 Mbaud
Potentialtrennung: ja
Anschluss "bus in" (Stift):
M12 Rundsteckverbinder 5 pol
Anschluss "bus out" (Buchse):
M12 Rundsteckverbinder 5 pol
Steckerbelegung:

Pin	Funktion
1	VP (+5Vdc)
2	RxD / TxD-N
3	DGND
4	RxD / TxD-P
5	Abschirmung

System data

Function

The bus interface of the LPP Valve Island 770 PB range can actuate up to 22 solenoid coils (outputs) in a customised arrangement.

Technical data

Type:

compact synthetic material case on metal plate for LPP 770 Valves
Protection: IP 65 (if connectors are covered)
Measurements: see catalogue P 609

Admissible ambient conditions

Storage temperature: -10...+55 °C
Ambient temp. during operation: 0...50 °C

Power Supply, "power"

System and outputs: 24 V DC -10%/+10%
Connection technique: 12 mm round plug, male
Pin wiring:

Pin	Function
1	+24 VDC supply to system
2	+24 VDC supply to outputs
3	0 V
4	0 V

PROFIBUS DP Network Connection

Transfer rate: up to 12 Mbit/s
Potential separation: yes
connection "bus in" (male): 12 mm round plug
connection " bus out" (female): 12 mm round plug

Pin wiring:

Pin	Function
1	VP (+5Vdc)
2	RxD / TxD-N
3	DGND
4	RxD / TxD-P
5	Shield

Betriebszustandanzeige

LEDs¹ auf dem Gehäusedeckel zeigen den Betriebszustand an

LED "RUN" / Gerätestatus


LED "RUN" (grün)	Status
Aus	Keine Spannung
An	OPERATIONAL

LED "ERR" / Status des PROFIBUS DP Slaves

LED "ERR" (rot)	Status
Aus	Kommunikation mit dem Master ok
An	Keine Kommunikation über den Bus

PROFIBUS Teilnehmeradresse

Über die DIP-Schalter S1 ... S8 wird die Einstellung der Teilnehmeradresse **BCD-kodiert** vorgenommen

Standard:	Adressen								0...99
Schalter									
1	2	3	4	5	6	7	8		
off	off	off	off	off	off	off	off	 Nicht erlaubt!	
off	off	off	off	off	off	off	on	1	
off	off	off	off	off	off	on	off	2	
off	off	off	off	off	off	on	on	3	
								etc.	
off	off	off	on	off	off	on	on	13	
off	off	off	off	off	off	off	off	etc.	
off	off	off	on	off	on	on	off	16	
								etc.	
on	off	off	on	on	off	off	off	98	
on	off	off	on	on	off	off	on	99	

PROFIBUS DP

Übertragungsgeschwindigkeit

Die Übertragungsgeschwindigkeit des Slaves richtet sich automatisch nach der Geschwindigkeit des angeschlossenen PROFIBUS-DP-Masters.
Das Gerät unterstützt alle Geschwindigkeiten (bis 12 Mbit/s) gemäß Normfestlegungen.

¹⁾ LEDs sind Licht emittierende Dioden Klasse 1 (gem. EN60825-1)

Operation state signalling

LEDs¹ on the case lid show the operational state

LED "RUN" / Power Supply is OK


LED "RUN" (green)	Status
OFF	No Power Supply
ON	OPERATIONAL

LED "ERR" / status of the PROFIBUS-DP slave

LED "ERR" (red)	Status
Off	Data exchange with the master ok
On	No PROFIBUS communication

PROFIBUS address

The DIP switches S1 ... S8 are used to set the station number in a **BCD-coded** format.

Standard:	Adressen								0...99
Schalter									
1	2	3	4	5	6	7	8	Adresse	
off	off	off	off	off	off	off	off	 Not allowed!	
off	off	off	off	off	off	off	on	1	
off	off	off	off	off	off	on	off	2	
off	off	off	off	off	off	on	on	3	
								etc.	
off	off	off	on	off	off	on	on	13	
off	off	off	off	off	off	off	off	etc.	
off	off	off	on	off	on	on	off	16	
								etc.	
on	off	off	on	on	off	off	off	98	
on	off	off	on	on	off	off	on	99	

PROFIBUS DP

communication speed

The communication speed of the slave automatically adjusts itself to that of the PROFIBUS-DP master connected.
The device supports all speeds specified by the applicable standard, i.e. up to 12 Mbit/s.

¹⁾ LEDs are light emitting diodes, class 1 (in acc. with EN60825-1)