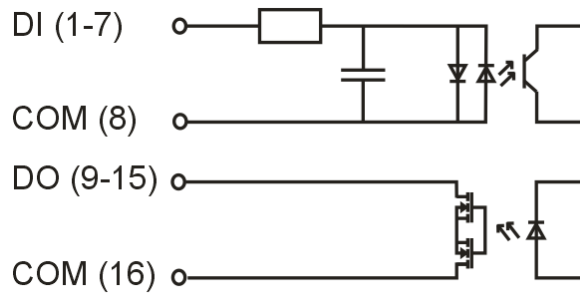



KUHSE KNG Digital I/O KNG-DIO



Description	Article number			
Module to add 7 digital inputs and 7 digital outputs to the KNG	2KNGDIO050			
Properties	Technical data			
<ul style="list-style-type: none"> 7 inputs via opto-isolator 7 CMOS relay outputs Inputs/outputs selectable, plus/minus switched Isolation >500 V between inputs/outputs and computer logic Stability and emitted interference checked in accordance with EN 6132 	Supply	Min	Type	Max
	Voltage (internal via TBUS)	5		V DC
	Current consumption		100	mA
	Environmental conditions	Min		Max
	Storage	-20		70 °C
	Operation	-10		55 °C
	Measurements W	H	D	
	Total	22.5	99	114.5 mm
	Weight			0.3 Kg
	Input	Min	Type	Max
Number	7			
Input voltage (V _{IO})	12	24	32 V	
Signal (0)	0	3	V	
Signal (1)	8	V _{IO}	V	
Flammability and safety class	Safety class in accordance with EN 60529			
Flammability class in accordance with UL 94 (housing)		Current consumption at 24V		
		Response time		
		2		
		ms		
		Outputs		
Assembly		Number		
		7		
Mounting	Rail supports in accordance	Contact voltage	24	32 V
Installation position	Any, in control cabinet	Output current		200 mA
		Output impedance	0.8	2.5 Ω

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Input pin assignment				TBUS pin assignment																																																																																												
Pin	Signal	Meaning		Pin	Signal	Meaning																																																																																										
1	IN 1	Input 1		1	-	Ground (internal supply)																																																																																										
2	IN 2	Input 2		2	+	+5V supply (optional)																																																																																										
3	IN 3	Input 3		3	L	CAN low																																																																																										
4	IN 4	Input 4		4	H	CAN high																																																																																										
5	IN 5	Input 5		5	PE	CAN bus screen																																																																																										
6	IN 6	Input 6																																																																																														
7	IN 7	Input 7																																																																																														
8	COM	Total potential of inputs																																																																																														
Output pin assignment																																																																																																
9	OUT 1	Output 1																																																																																														
10	OUT 2	Output 2																																																																																														
11	OUT 3	Output 3																																																																																														
12	OUT 4	Output 4																																																																																														
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14	OUT 6	Output 6																																																																																														
15	OUT 7	Output 7																																																																																														
16	COM	Total potential of outputs		CANBUS address																																																																																												
LEDs				<ul style="list-style-type: none"> Device address via switch block S1 (internal) 																																																																																												
Colour	Signal	Status	Meaning	<table border="1"> <thead> <tr> <th colspan="4">Switch</th> <th>Address</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th></th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>0</td><td>0</td><td>10h</td></tr> <tr><td>1</td><td>0</td><td>0</td><td>0</td><td>11h</td></tr> <tr><td>0</td><td>1</td><td>0</td><td>0</td><td>12h</td></tr> <tr><td>1</td><td>1</td><td>0</td><td>0</td><td>13h</td></tr> <tr><td>0</td><td>0</td><td>1</td><td>0</td><td>14h</td></tr> <tr><td>1</td><td>0</td><td>1</td><td>0</td><td>15h</td></tr> <tr><td>0</td><td>1</td><td>1</td><td>0</td><td>16h</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>0</td><td>17h</td></tr> <tr><td>0</td><td>0</td><td>0</td><td>1</td><td>18h</td></tr> <tr><td>1</td><td>0</td><td>0</td><td>1</td><td>19h</td></tr> <tr><td>0</td><td>1</td><td>0</td><td>1</td><td>1Ah</td></tr> <tr><td>1</td><td>1</td><td>0</td><td>1</td><td>1Bh</td></tr> <tr><td>0</td><td>0</td><td>1</td><td>1</td><td>1Ch</td></tr> <tr><td>1</td><td>0</td><td>1</td><td>1</td><td>1Dh</td></tr> <tr><td>0</td><td>1</td><td>1</td><td>1</td><td>1Eh</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>1</td><td>1Fh</td></tr> </tbody> </table>			Switch				Address	1	2	3	4		0	0	0	0	10h	1	0	0	0	11h	0	1	0	0	12h	1	1	0	0	13h	0	0	1	0	14h	1	0	1	0	15h	0	1	1	0	16h	1	1	1	0	17h	0	0	0	1	18h	1	0	0	1	19h	0	1	0	1	1Ah	1	1	0	1	1Bh	0	0	1	1	1Ch	1	0	1	1	1Dh	0	1	1	1	1Eh	1	1	1	1	1Fh
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Yellow	IN 1-7	on	Input signal (1) identified	Switch ON=1 / OFF=0																																																																																												
Yellow	OUT 1-7		Output set	<ul style="list-style-type: none"> Bus launch via switch block S2 (internal) Switch 1 ON = 120 Ω termination resistance 																																																																																												
Green	RUN	flashing	Program running																																																																																													
Green	STA	flashing/on	Data connection status																																																																																													