

Relays and optocouplers

Optocouplers

R600



DIN 3

Optocoupler : 5 to 58 V DC output / 100 mA - 6 mm .236" spacing

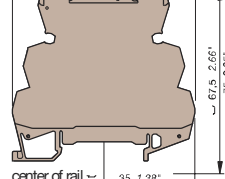
Characteristics

Opto. characteristics	OB...IC 0100							
INPUT	5 V DC - 12 V DC		24 V DC	48 V AC/DC 50 / 60 Hz	60 V AC/DC 50 / 60 Hz	115 V AC/DC 50 / 60 Hz	230 V AC/DC 50 / 60 Hz	
Input voltage +20% -15% on DC, +10% -10% on AC								
Frequency								
Input current AC/DC	5 mA	9 mA	4 mA	4 mA	5 mA	7 mA / 16mA	11.5 mA/25 mA	
Pull-in voltage at Is=100%	4 V	4 V	15 V	25 V	25 V	60 VAC/70 VDC	60 VAC/70 VDC	
Switching time C / O	10 µs / 500 µs		10 µs/ 500µs	5 ms / 20 ms		5 ms / 15 ms		
Operating frequency	1000 Hz		1000 Hz	20 Hz		20 Hz		
Permissible leakage current								
OUTPUT	0,9 mA		1 mA	0,9 mA		1,6 mA		
Output voltage				4,5 to 58 VDC				
Output current min.				1 mA				
Output current max.				100 mA				
Output leakage current at Umax.				< 50 µA				
Residual voltage at I max and U rated				1 V				
typical				1,3 V				
max.								
Frequency on inductive load	2500 V RMS							
Isolation Input / Output								
TEMPERATURE								
Ambient temperature storage	-40°C to +80°C							
operating	-20°C to +70°C (1)							
Other characteristics								
Body material	Screw clamp			Spring clamp				
Wire	UL 94 V0			UL 94 V0				
size	0,2 - 4 mm² / 24 - 12 AWG			0,2 - 2,5 mm² / 24 - 12 AWG				
Stranded wire	0,22 - 2,5 mm² / 24 - 12 AWG			0,22 - 2,5 mm² / 24 - 12 AWG				
Rated wire size	2,5 mm² / 12 AWG			2,5 mm² / 12 AWG				
Wire stripping length	9 mm .354"			9 mm .354"				
Recommended screwdriver	3,5 mm .137"			3,5 mm .137"				
Protection	IP20 NEMA1			IP20 NEMA1				
Recommended torque	0,4 - 0,6 Nm 3.5 - 5.3 lb.in			0,4 - 0,6 Nm 3.5 - 5.3 lb.in				
Approvals	cULus, (pending), LRS, CE							
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IEC 1000-4-2, 3, 4, 5, 6.							

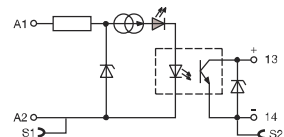
(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.



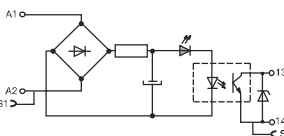
Screw clamp module



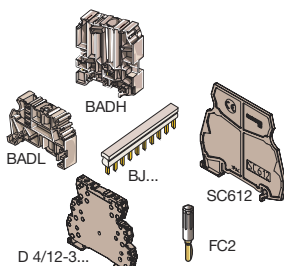
Spring clamp module



OB...IC 0100 - 5-12 V DC
115-230 V AC/DC



OB...IC 0100
24 V DC
24-48-60 V AC/DC



Order codes

Description	Type	Order P/N	Packaging	Weight kg
Optocoupler module 100 mA/DC	OBIC 0100-5-12VDC	1SNA 645 047 R0000	10	0,02
Optocoupler module 100 mA/DC	OBIC 0100-24VDC	1SNA 645 021 R2600	10	0,02
Optocoupler module 100 mA/DC	OBIC 0100-48-60VAC/DC	1SNA 645 049 R1200	10	0,02
Optocoupler module 100 mA/DC	OBIC 0100-115-230VAC/DC	1SNA 645 022 R2700	10	0,02
Optocoupler module 100 mA/DC	OBRIC 0100-5-12VDC	1SNA 645 547 R0200	10	0,02
Optocoupler module 100 mA/DC	OBRIC 0100-24VDC	1SNA 645 521 R2000	10	0,02
Optocoupler module 100 mA/DC	OBRIC 0100-48-60VAC/DC	1SNA 645 549 R1400	10	0,02
Optocoupler module 100 mA/DC	OBRIC 0100-115-230VAC/DC	1SNA 645 522 R2100	10	0,02

Accessories

End section	BADH V0	1SNA 116 900 R2700	50
	BADL V0	1SNA 399 903 R0200	50
	BAM2 V0	1SNA 399 967 R0100	50
Separator end section	SC 612	1SNA 290 474 R0200	10
Divisible shunt 10 poles	BJ 612-10	1SNA 290 488 R0100	10
Divisible shunt 70 poles	BJ 612-70	1SNA 290 489 R0200	10
Screw clamp distribution block sp. 12 mm	D4/12-3-3	1SNA 645 031 R2000	5
Spring clamp distribution block sp. 12 mm	D4/12-3R-3R	1SNA 645 531 R2200	5
Test plug DIA. 2 mm	FC2	1SNA 007 865 R2600	10
Marking method	RC65 RC610	see marking	