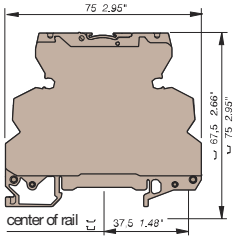
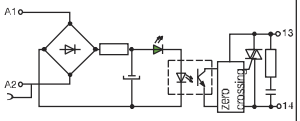


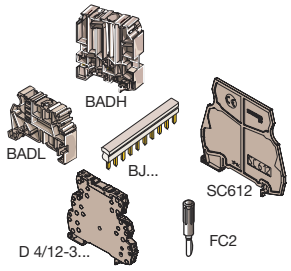
Screw clamp module



Spring clamp module



OB...OA 1000
24 V DC
48-60-115-230 V AC/DC
OB...OA 2000 - 24 V DC



Optocoupler : 24 to 400 V AC output / 2 A max. - 6 or 12 mm spacing

Characteristics

Opto. characteristics	OB...OA 1000						OB...OA 2000
INPUT							
Input voltage +20% -15% on DC, +10% -10% on AC	24 V DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	230 V AC/DC		24 V DC
Frequency		50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz		
Input current	3,6 mA	4,3 mA	5,5 mA	4,15 mA	4,6 mA		3,6 mA
Pull-in voltage at Is=100%	14 V	15 V	18 V	60 V	135 V		14 V
Switching time C / O	150 µs/1ms	3 ms / 30 ms		2,2 ms/18 ms	2,5 ms/25 ms		150 µs/1 ms
Operating frequency	500 Hz	20 Hz		25 Hz	20 Hz		500 Hz
Permissible leakage current	1 mA	1 mA		1 mA	1 mA		1 mA
OUTPUT							
Output voltage	24 to 400 V AC						
Frequency	50 / 60 Hz						
Output current min.	25 mA						
Output current max.	1 A						2 A
Output leakage current at Umax.	< 0,5 mA						
Residual voltage at I max and U rated typical	1 V						
Residual voltage at I max and U rated max.	1,6 V						
Frequency on inductive load							
Isolation Input / Output	2500 V RMS						
TEMPERATURE							
Ambient temperature storage	- 40°C to + 80°C						
Ambient temperature operating	-20°C to +70°C (1)						

Other characteristics	Screw clamp	Spring clamp
Body material	grey	UL 94 V0	UL 94 V0
Wire size Solid wire	0,2 - 4 mm² / 24 - 12 AWG	0,2 - 2,5 mm² / 24 - 12 AWG
Wire size 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	c UL us, SP (pending), GL, LRS, CE	
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 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.

Order codes

Description	Type	Order P/N	Packaging	Weight kg
Optocoupler module 1 A/AC 6 mm spac.	OBOA 1000-24VDC	1SNA **645 027** R2400	10	0,03
Optocoupler module 1 A/AC 6 mm spac.	OBOA 1000-48-60VAC/DC	1SNA **645 061** R0600	10	0,03
Optocoupler module 1 A/AC 6 mm spac.	OBOA 1000-115VAC/DC	1SNA **645 062** R0700	10	0,03
Optocoupler module 1 A/AC 6 mm spac.	OBOA 1000-230VAC/DC	1SNA **645 028** R0500	10	0,03
Optocoupler module 2 A/AC 12 mm spac.	OBOA 2000-24VDC	1SNA **645 029** R0600	5	0,03
Optocoupler module 1 A/AC 6 mm spac.	OBROA 1000-24VDC	1SNA **645 527** R2600	10	0,03
Optocoupler module 1 A/AC 6 mm spac.	OBROA 1000-48-60VAC/DC	1SNA **645 561** R0000	10	0,03
Optocoupler module 1 A/AC 6 mm spac.	OBROA 1000-115VAC/DC	1SNA **645 562** R0100	10	0,03
Optocoupler module 1 A/AC 6 mm spac.	OBROA 1000-230VAC/DC	1SNA **645 528** R0700	10	0,03
Optocoupler module 2 A/AC 12 mm spac.	OBROA 2000-24VDC	1SNA **645 529** R0000	5	0,03

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	