

Optocouplers

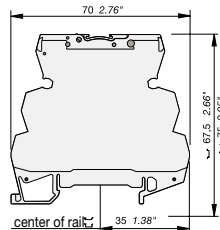
R600

5 to 58 VDC output / 2 A - 6 mm .236" spacing

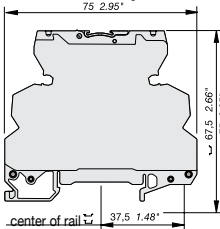
Characteristics

| Opto. characteristics | OB...OC 1000 | | OB...OC 1500 | | OB...OC 1000 | | | |
|--|--|--|--|------------|--------------|--|--------------|--------------|
| | INPUT | | INPUT | | INPUT | | | |
| Input voltage +20% -15% on DC, +10% -10% on AC | 5 V DC - 12 V DC | | 24 V DC | 24 V AC/DC | 48 V AC/DC | 60 V AC/DC | 115 V AC/DC | 230 V AC/DC |
| Frequency | 5 mA 9 mA | | 5,4 mA | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz |
| Input current | 4 V | | 12 V | 6,3 mA | 4 mA | 5,1 mA | 4,2 mA | 4 mA |
| Pull-in voltage at Is=100% | | | | 15 V | 27 V | 27 V | 50 V | 80 V |
| Switching time C / O | | | | | | | | |
| Operating frequency | 15 µs / 250 µs | | 30 µs/400 µs | 1 ms/7 ms | 5 ms/20 ms | 5 ms/20 ms | 500 µs/10 ms | 1 ms / 15 ms |
| Permissible leakage current | 2000 Hz | | 1000 Hz | 60 Hz | 20 Hz | 20 Hz | 50 Hz | 35 Hz |
| | 1 mA | | 0,8 mA | 0,9 mA | 1 mA | 1 mA | 0,3 mA | 0,3 mA |
| OUTPUT | | | | | | | | |
| Output voltage | 4,5 to 58 VDC | | | | | | | |
| Output current min. | | | | | | | | |
| Output current max. | 1 mA | | | | | | | |
| Output leakage current at Umax. | 2 A | | | | | | | |
| Residual voltage at I max and U rated | typical | | | | | | | |
| | max. | | | | | | | |
| | 0,1 V | | | | | | | |
| Frequency on inductive load | 0,5 V | | | | | | | |
| Isolation Input / Output | 2500 V RMS | | | | | | | |
| TEMPERATURE | | | | | | | | |
| Ambient temperature storage | -40°C to +80°C | | | | | | | |
| operating | -20°C to +70°C (1) | | | | | | | |
| Other characteristics | Screw clamp | | Spring clamp | | | | | |
| Body material | grey | | UL 94 V0 | | | UL 94 V0 | | |
| Wire | Solid wire | | 0,2 - 4 mm ² / 24 - 12 AWG | | | 0,2 - 2,5 mm ² / 24 - 12 AWG | | |
| size | Stranded wire | | 0,22 - 2,5 mm ² / 24 - 12 AWG | | | 0,22 - 2,5 mm ² / 24 - 12 AWG | | |
| Rated wire size | | | 2,5 mm ² / 12 AWG | | | 2,5 mm ² / 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 | 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. | | | | | | | |

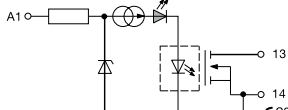
(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.



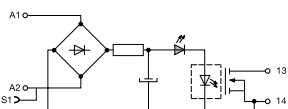
Screw clamp module



Spring clamp module



OB...OC 1000 - 5-12-24 V DC



OB...OC 1500 - 24 V AC/DC
OB...OC 1000 - 48-60-115-230 V AC/DC

Ordering data

| Description | Type | Order code | Packaging | Weight kg |
|---------------------|------------------------|--------------------|-----------|-----------|
| Optocoupler, 2 A/DC | OBOC 1000-5-12VDC | 1SNA 645 050 R1700 | 10 | 0,02 |
| Optocoupler, 2 A/DC | OBOC 1000-24VDC | 1SNA 645 051 R0400 | 10 | 0,02 |
| Optocoupler, 2 A/DC | OBOC 1500-24VAC/DC | 1SNA 645 025 R2200 | 10 | 0,02 |
| Optocoupler, 2 A/DC | OBOC 1000-48-60VAC/DC | 1SNA 645 053 R0600 | 10 | 0,02 |
| Optocoupler, 2 A/DC | OBOC 1000-115VAC/DC | 1SNA 645 054 R0700 | 10 | 0,02 |
| Optocoupler, 2 A/DC | OBOC 1000-230VAC/DC | 1SNA 645 026 R2300 | 10 | 0,02 |
| Optocoupler, 2 A/DC | OBROC 1000-5-12VDC | 1SNA 645 550 R1100 | 10 | 0,02 |
| Optocoupler, 2 A/DC | OBROC 1000-24VDC | 1SNA 645 551 R0600 | 10 | 0,02 |
| Optocoupler, 2 A/DC | OBROC 1500-24VAC/DC | 1SNA 645 525 R2400 | 10 | 0,02 |
| Optocoupler, 2 A/DC | OBROC 1000-48-60VAC/DC | 1SNA 645 553 R0000 | 10 | 0,02 |
| Optocoupler, 2 A/DC | OBROC 1000-115VAC/DC | 1SNA 645 554 R0100 | 10 | 0,02 |
| Optocoupler, 2 A/DC | OBROC 1000-230VAC/DC | 1SNA 645 526 R2500 | 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 | D4/12-3A-3A | 1SNA 645 031 R2000 | 5 |
| Spring clamp distribution block sp. 12 mm | D4/12-3L-3L | 1SNA 645 531 R2200 | 5 |
| Test plug DIA. 2 mm | FC2 | 1SNA 007 865 R2600 | 10 |
| Marking method | RC65 RC610 | see marking | |

