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BICOM432-40-WM1

BICOM432-40-WM1 is bistable switch with modbus communication over IR connection. Bistable switch is a switching device with two stable states for switching off/on all kind of electrical loads. When the switch is not initiated electrically, manually or over a IR communication path, remains stable in its operating position and will change its operating position on initiation or actuation. Switch is controllable over a IR communication interface always in a slave communication position. BICOM432-40-WM1 has built-in electro-mechanical check of the position status. BICOM432-40-WM1 is available as standalone unit, being also powered from own power source over an internal power supply.

## Bistable Switches with communication BICOM432-40-WM1



Bistable switch with Infrared communication (IR) is special version for use in smart buildings, smart installations, demand-side-management and industry solutions. BICOM432-40-WM1 has four separated contacts for loads up to 32 A .

| Type | Rated current ${ }_{\text {e }}$ | Control voltage at 50 Hz | Wiring diagram | Ordering No. | Weight <br> (g) | Packaging (pcs) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BICOM432-40-WM1 | 32 A | 230 V |  | 30.074.038 | 250 | 1 |

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Technical character

## Bistable Switches with communication BICOM432-40-WM1

TECHNICAL DATA


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## TECHNICAL DATA

| Type | Symbol | Unit | BI432-40-WM1 |
| :---: | :---: | :---: | :---: |
| Rated operational current for AC-6a (at 230 V ) | $\mathrm{I}_{\text {e }}$ | A | 4.5 |
| Maximum operating frequency for AC-6a |  | op./h | 450 |
| Electrical endurance for AC-6a |  | op. c. | 100.000 |
| Switching of capacitors AC-6b and AC-7c (at 230 V ) | C | $\mu \mathrm{F}$ | 150 |
| Maximum operating frequency for AC-6b and AC-7c |  | op./h | 450 |
| Electrical endurance for $\mathrm{AC}-6 \mathrm{~b}$ and $\mathrm{AC}-7 \mathrm{c}$ |  | op. c. | 100.000 |
| Rated operational current for $\mathrm{DC}-1(\mathrm{~L} / \mathrm{R} \leq 1 \mathrm{~ms})$ : 1 pole 24 V DC/48 V DC/60 V DC/110 V DC/ 220 V DC |  |  | 32/25/20/7/0.7 |
| 2 poles in series 24 V DC/48 V DC/60 V DC/110 V DC/ 220 V DC | $\mathrm{I}_{\text {e }}$ | A | 32/28/22/12/6 |
| 3 poles in series 24 V DC/ 48 V DC/60 V DC/110 V DC/ 2220 V DC |  |  | 32/32/28/22/18 |
| 4 poles in series 24 V DC/48 V DC/60 V DC/110 V DC/ 222 V DC |  |  | 32/32/32/25/20 |
| Maximum operating frequency for DC-1 |  | op./h | 300 |
| Electrical endurance for DC-1 |  | op. c. | 100.000 |
| Rated operational current for $\mathrm{DC}-3$ (L/R $\leq 2 \mathrm{~ms}$ ): 1 pole 24 V DC/48 V DC/60 V DC/110 V DC/ 220 V DC |  |  | 18/10/4/1.2/0.3 |
| 2 poles in series 24 V DC/ 48 V DC/60 V DC/110 V DC/ 220 V DC | $\mathrm{I}_{\text {e }}$ | A | 32/18/14/5/0.8 |
| 3 poles in series 24 V DC/48 V DC/60 V DC/110 V DC/ 220 V DC |  |  | 32/30/28/18/4 |
| 4 poles in series 24 V DC/ 48 V DC/60 V DC/110 V DC/ 222 V DC |  |  | 32/32/30/22/10 |
| Maximum operating frequency for DC-3 |  | op./h | 300 |
| Electrical endurance for DC-3 |  | op. c. | 100.000 |
| Rated operational current for $\mathrm{DC}-5(\mathrm{~L} / \mathrm{R} \leq 7.5 \mathrm{~ms})$ : 1 pole 24 V DC/48V DC/60 V DC/110 V DC/ 220 V DC |  |  | 18/6/3/0.8/0.1 |
| 2 poles in series 24 V DC/48 V DC/60 V DC/110 V DC/ 220 V DC | $I_{\text {e }}$ | A | 32/16/12/4/0.6 |
| 3 poles in series 24 V DC/48 V DC/60 V DC/110 V DC/ 220 V DC |  |  | 32/28/25/16/3 |
| 4 poles in series 24 V DC/48 V DC/60 V DC/110 V DC/ 222 V DC |  |  | 32/30/28/18/8 |
| Maximum operating frequency for DC-5 |  | op./h | 300 |
| Electrical endurance for DC-5 |  | op. c. | 100.000 |
| Terminal capacity: rigid (solid and stranded) | S | $\mathrm{mm}^{2}$ | $1 . . .10$ |
| flexible |  |  | 1... 10 |
| Length of removed wire insulation |  | mm | 9 |
| Screw |  |  | M4 |
| Screw head |  |  | PZ2 |
| Tightening torque |  | Nm | 1.2 |
| Range of control voltage for switch-on | $\mathrm{U}_{\text {c }}$ | \% | $90 . . .110$ |
| Range of control voltage for drop out | $\mathrm{U}_{\text {c }}$ | \% | AC: $75 \ldots 20$ / DC: $75 \ldots 10$ |
| Kind of voltage |  |  | AC or DC |
| Standard control voltages | $\mathrm{U}_{\mathrm{c}}$ | V | 230 |
| Frequency of AC control voltage | f | Hz | AC: 50 or 60 |
| Control mode |  |  | remote control with impulse voltage / manual control |
| Impulse duration of control voltage: minimum |  |  | AC: $50 \mathrm{~ms} / \mathrm{DC}: 100 \mathrm{~ms}$ |
| optimum - recommended |  |  | AC: $100 \ldots 500 \mathrm{~ms} / \mathrm{DC}: 150 \ldots 500 \mathrm{~ms}$ |
| maximum (only in case of breakdown of control system) |  |  | AC: 1 hour / DC: 1 minute |
| Minimum duration between two impulses of control voltage |  | ms | AC: 150 / DC: 500 |
| Surge immunity withstand voltage $1.2 / 50 \mu \mathrm{~s}$ acc. to standard IEC/EN 61000-4-5 |  | kV | 3 |
| Consumption: switch on/off operation |  | VA/W | AC: 18/13 / DC: 9/9 |
| stand-by |  |  | AC: 0,7/0,5 / DC: 0,7/0,5 |
| Delays: make |  | ms | AC: 5 ... 20 / DC: $8 \ldots 35$ |
| brake |  |  | AC: $5 \ldots 20$ / DC: $8 . . .35$ |
| Terminal capacity: rigid (solid and stranded) flexible |  | $\mathrm{mm}^{2}$ | 1 ... 4 |
|  |  |  | $1 . . .4$ |
| Length of removed wire insulation |  | mm | 7 |
| Screw |  |  | M3 |
| Screw head |  |  | PZ1 |
| Tightening torque |  | Nm | 0.6 |

## Bistable Switches with communication Operation Position, Dimensions




