



KZ-8 Limit Switch

Features

Double circuit type of limit switch Highly rigid construction, consists of intensive plastic and aluminum cast (Head and cover snugly fit in box) Small volume, water-proof and oil-proof construction Built-in basic switch with double spring mechanism, longer mechanical life Smooth operation with greater OT Easy-to-wire circuit opening design Wide variety of actuators, easily use

Contact Form



Characteristics

Ratings

| Rated voltage                              | Noninductive Load (A)          |                   |           |          | Inductive Load (A) |          |            |          |
|--------------------------------------------|--------------------------------|-------------------|-----------|----------|--------------------|----------|------------|----------|
|                                            | Resistance Load                |                   | Lamp Load |          | Inductive Load     |          | Motor Load |          |
|                                            | NC                             | NO                | NC        | NO       | NC                 | NO       | NC         | NO       |
| 125VAC<br>250VAC<br>500VAC                 | 5.5                            | 5.5               | 1.5       | 0.7      | 3.3                | 3.3      | 2          | 1        |
| 8VDC<br>14VDC<br>30VDC<br>125VDC<br>250VDC | 5.5<br>0.4<br>0.2              | 5.5<br>0.4<br>0.2 | 3.3<br>3  | 3.3<br>3 | 5.4<br>4           | 4.4<br>4 | 3.3<br>3   | 3.3<br>3 |
| Inrush Current                             | N.C: below 24A, N.O: below 12A |                   |           |          |                    |          |            |          |

|                                           |                                                                                                                 |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Operation speed                           | 0.5mm-50cm/sec                                                                                                  |
| Operating frequency<br>Contact resistance | Mechanical: 120 operations/minute Electrical: 30 operations/minute 25m max. (initial value)                     |
| Insulation resistance                     | 100m min. at 500VDC                                                                                             |
|                                           | 1000VAC, 50/60 HZ for 1 minute between terminals of the same polarity                                           |
| Dielectric strength                       | 1500VAC, 50/60 HZ for 1 minute between current-carrying and non-current-carrying metal parts                    |
|                                           | 1500VAC, 50/60 HZ for 1 minute between each terminal and ground                                                 |
| Vibration                                 | 10-55HZ, 1.5mm double amplitude                                                                                 |
| Shock                                     | Mechanical durable: 1, 000m/Sec <sup>2</sup> (about 100G'S)<br>Malfunction: 300m/Sec <sup>2</sup> (about 30G'S) |
| Ambient temperature                       | -5 to +65                                                                                                       |
| Humidity                                  | <95% RH                                                                                                         |
| Life                                      | Mechanical: 10,000,000 operations above Electrical: 500,000 operations above                                    |
| Weight                                    | About 130 to 190g                                                                                               |
| Degree of protection                      | IP65                                                                                                            |

Operating characteristics

|         |         |         |         |          |              |                        |
|---------|---------|---------|---------|----------|--------------|------------------------|
| Models  | KZ-8104 | KZ-8108 | KZ-8107 | KZ-8111  | KZ-8112/8122 | KZ-8166/8167/8168/8169 |
| OF Max. | 750g    | 750g    | 750g    | 900g     | 900g         | 150g                   |
| RF Min. | 100g    | 100g    | 100g    | 150g     | 150g         | -                      |
| PT Max. | 20      | 20      | 20      | 1.5mm    | 1.5mm        | 30mm                   |
| OT Min. | 50      | 50      | 50      | 4mm      | 4mm          | -                      |
| MD Max. | 12      | 12      | 12      | 1mm      | 1mm          | -                      |
| OP      | -       | -       | -       | 26 0.8mm | 37 0.8mm     | -                      |

## KZ-8 Limit Switch

### Appearance and dimension

