AXICOM

## Electronics

## The Best Relaytion



## FT2 / FU2 Relay

2 pole telecom/signal relay
Through Hole Type (THT)
Non - polarized. non-latching 1 coil

## Features

- Telecom/signal relay (dry circuit, test access, ringing)
- Slim line $15 \times 7.5 \mathrm{~mm}, 0.59 \times 0.295$ inch
- Switching current 2 A
- 2 changeover contacts ( 2 form C / DPDT)
- Bifurcated contacts
- Meets Bellcore GR 1089, FCC Part 68 and ITU-T K20 $\geq 2500 \mathrm{~V}$ between coil and contacts


IEC/EN60950

IEC 61811-54:01
(QC 160504)

IEC Ref. Cert. No. 2168

Typical applications:

- Communications equipment

Linecard application - analog, ISDN, xDSL PABX
Voice over IP

- Office and business equipment
- Measurement and control equipment
- Consumer electronics

Set top boxes, HiFi

- Medical equipment


## Options:

High Dielectric Version (HDV) with > 5000 V surge voltage between coil and contacts

Suitable for $125^{\circ} \mathrm{C}$ ambient temperature


## European Directive conformance:

FT2/FU2 relay product conformance according to: - Directive 2000/53/EC: ELV (End of Life of Vehicles)

- Directive 2002/95/EC: ROHS (Restrictions of the use of certain hazardous substances in electrical and electronic equipment)
Compliance is evidenced by written declaration from all raw material suppliers.
Tyco Electronics AXICOM only has responsibility for the proper processing of these materials.
Confirmation is valid for date codes $\geq 0427$

Dimensions

|  | FT2 THT |  | FU2 SMT long terminals |  | FU2 SMT short terminals |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | mm |  | inch | mm | inch | mm |
| inch |  |  |  |  |  |  |
| L | $15 \pm 0.05$ | $0.590 \pm 0.002$ | $15 \pm 0.15$ | $0.590 \pm 0.002$ | $15 \pm 0.05$ | $0.590 \pm 0.002$ |
| W | $7.5 \pm 0.05$ | $0.295 \pm 0.002$ | $7.5 \pm 0.05$ | $0.295 \pm 0.002$ | $7.6 \pm 0.05$ | $0.296 \pm 0.002$ |
| H | $9.6 \pm 0.03$ | $0.377 \pm 0.001$ | $10+0.15$ | $0.393+0.006$ | $10+0.15$ | $0.393+0.006$ |
| T | $3.3 \pm 0.3$ | $0.129 \pm 0.011$ | N/A | N/A | N/A | N/A |
| T1 | N/A | N/A | $9.2 \pm 0.2$ | $0.362 \pm 0.008$ | $7.5 \pm 0.2$ | $0.295 \pm 0.008$ |
| T2 | 5.08 | 0.200 | 5.08 | 0.200 | 5.08 | 0.200 |
| Tw | 0.5 | 0.020 | 0.5 | 0.020 | 0.5 | 0.020 |
| S | $0.35 \pm 0.03$ | $0.013 \pm 0.001$ | N/A | N/A | N/A | N/A |

FT2: THT Version


Mounting hole layout
View onto the component side of the PCB


Basic grid 2.54 mm

## Terminal assignment

Relay - top view
non-latching 1 coil
release condition


## FU2: SMT Version

Long terminals (W)


## Solder pad layout

View onto the component side of the PCB




THT sensitive version non-latching 1 coil

| 3 | 2.25 | 6.8 | 0.30 | 200 | 45 | D3421 | $0-1462035-9$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 3.00 | 9.0 | 0.40 | 200 | 114 | D3429 | $1-1462035-9$ |
| 4.5 | 3.38 | 10.1 | 0.45 | 200 | 101 | D3422 | $1-1462035-0$ |
| 5 | 3.75 | 11.2 | 0.50 | 200 | 125 | D3423 | $1-1462035-1$ |
| 6 | 4.50 | 13.5 | 0.60 | 200 | 180 | D3424 | $1-1462035-2$ |
| 9 | 6.75 | 20.3 | 0.90 | 200 | 405 | D3425 | $1-1462035-3$ |
| 12 | 9.00 | 27.0 | 1.20 | 200 | 720 | D3426 | $1-1462035-4$ |
| 24 | 18.00 | 47.5 | 2.40 | 240 | 2400 | D3427 | $1-1462035-7$ |
| 48 | 36.00 | 95.0 | 4.80 | 240 | 9600 | D3428 | $1-1462035-8$ |

SMT sensitive version Long Terminals non-latching 1 coil

| 3 | 2.25 | 6.8 | 0.30 | 200 | 45 | D3521W | $1-1462036-8$ |
| :---: | ---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 3.00 | 9.0 | 0.40 | 200 | 114 | D3529W | $3-1462036-1$ |
| 4.5 | 3.38 | 10.1 | 0.45 | 200 | 101 | D3522W | $2-1462036-0$ |
| 5 | 3.75 | 11.2 | 0.50 | 200 | 125 | D3523W | $2-1462036-2$ |
| 6 | 4.50 | 13.5 | 0.60 | 200 | 180 | D3524W | $2-1462036-4$ |
| 9 | 6.75 | 20.3 | 0.90 | 200 | 405 | D3525W | $2-1462036-6$ |
| 12 | 9.00 | 27.0 | 1.20 | 200 | 720 | D3526W | $2-1462036-8$ |
| 24 | 18.00 | 47.5 | 2.40 | 240 | 2400 | D3527W | $9-1462036-1$ |
| 48 | 36.00 | 95.0 | 4.80 | 240 | 9600 | D3528W | $9-1462036-5$ |

SMT sensitive version Short Terminals non-latching 1 coil

| 3 | 2.25 | 6.8 | 0.30 | 200 | 45 | D3521N | $1-1462036-7$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 3.00 | 9.0 | 0.40 | 200 | 114 | D3529N | $3-1462036-0$ |
| 4.5 | 3.38 | 10.1 | 0.45 | 200 | 101 | D3522N | $1-1462036-9$ |
| 5 | 3.75 | 11.2 | 0.50 | 200 | 125 | D3523N | $2-1462036-1$ |
| 6 | 4.50 | 13.5 | 0.60 | 200 | 180 | D3524N | $2-1462036-3$ |
| 9 | 6.75 | 20.3 | 0.90 | 200 | 405 | D3525N | $2-1462036-5$ |
| 12 | 9.00 | 27.0 | 1.20 | 200 | 720 | D3526N | $2-1462036-7$ |
| 24 | 18.00 | 47.5 | 2.40 | 240 | 2400 | D3527N | $2-1462036-9$ |
| 48 | 36.00 | 95.0 | 4.80 | 240 | 9600 | D3528N | $9-1462036-3$ |

THT High dielectric version non-latching

| 3 | 2.25 | 6.8 | 0.30 | 200 | 45 | D3491 | $2-1462035-0$ |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 5 | 3.75 | 11.2 | 0.50 | 200 | 125 | D3493 | $1-1462035-5$ |
| 12 | 9.00 | 27.0 | 1.20 | 200 | 720 | D3496 | $2-1462035-4$ |
| 24 | 18.00 | 47.5 | 2.40 | 240 | 2400 | D3497 | $2-1462035-5$ |

## Coil operating range 200 / 240 mW



Ambient Temperature $\left[{ }^{\circ} \mathrm{C}\right.$ ]
$U_{\text {nom }}=\quad$ Nominal coil voltage
$\mathrm{U}_{\text {max. }}=\quad$ Upper limit of the operative range of the coil voltage (limiting voltage) when coils are continously energized
$\mathrm{U}_{\mathrm{op} . \min .}=$ Lower limit of the operative range of the coil voltage (reliable operate voltage)
$U_{\text {rel. min. }}=$ Lower limit of the operative range of the coil voltage (reliable release voltage)

| Coil Data (values at $23^{\circ} \mathrm{C}$ ) |  |  | Ordering Information |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nominal voltage | Operate/set voltage range |  | Release/ reset voltage <br> Minimum | Coil power | Coil <br> Resistance | Relay code | Tyco part number |
| Vdc | Minimum <br> voltage $U_{\text {min }}$ <br> Vdc | Maximum <br> voltage $U_{\text {max }}$ Vdc |  |  |  |  |  |

THT Standard version non-latching

| 3 | 2.25 | 5.5 | 0.30 | 300 | 30 | D3401 | $0-1462035-1$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4.5 | 3.38 | 8.3 | 0.45 | 300 | 68 | D3402 | $0-1462035-2$ |
| 5 | 3.75 | 9.2 | 0.50 | 300 | 83 | D3403 | $0-1462035-3$ |
| 6 | 4.5 | 11.0 | 0.60 | 300 | 120 | D3404 | $0-1462035-4$ |
| 9 | 6.75 | 16.6 | 0.90 | 300 | 270 | D3405 | $0-1462035-5$ |
| 12 | 9.00 | 22.1 | 1.20 | 300 | 480 | D3406 | $0-1462035-6$ |
| 24 | 18.00 | 44.2 | 2.40 | 300 | 1920 | D3407 | $0-1462035-7$ |
| 48 | 36.00 | 88.3 | 4.80 | 300 | 7680 | D3408 | $0-1462035-8$ |

SMT Standard version Long Terminals non-latching

| 3 | 2.25 | 5.5 | 0.30 | 300 | 30 | D3501W | $0-1462036-2$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4.5 | 3.38 | 8.3 | 0.45 | 300 | 68 | D3502W | $0-1462036-4$ |
| 5 | 3.75 | 9.2 | 0.50 | 300 | 83 | D3503W | $0-1462036-6$ |
| 6 | 4.5 | 11.0 | 0.60 | 300 | 120 | D3504W | $0-1462036-8$ |
| 9 | 6.75 | 16.6 | 0.90 | 300 | 270 | D3505W | $1-1462036-0$ |
| 12 | 9.00 | 22.1 | 1.20 | 300 | 480 | D3506W | $1-1462036-2$ |
| 24 | 18.00 | 44.2 | 2.40 | 300 | 1920 | D3507W | $1-1462036-4$ |
| 48 | 36.00 | 88.3 | 4.80 | 300 | 7680 | D3508W | $1-1462036-6$ |

SMT Standard version Short Terminals non-latching

| 3 | 2.25 | 5.5 | 0.30 | 300 | 30 | D3501N | $0-1462036-1$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4.5 | 3.38 | 8.3 | 0.45 | 300 | 68 | D3502N | $0-1462036-3$ |
| 5 | 3.75 | 9.2 | 0.50 | 300 | 83 | D3503N | $0-1462036-5$ |
| 6 | 4.5 | 11.0 | 0.60 | 300 | 120 | D3504N | $0-1462036-7$ |
| 9 | 6.75 | 16.6 | 0.90 | 300 | 270 | D3505N | $0-1462036-9$ |
| 12 | 9.00 | 22.1 | 1.20 | 300 | 480 | D3506N | $1-1462036-1$ |
| 24 | 18.00 | 44.2 | 2.40 | 300 | 1920 | D3507N | $1-1462036-3$ |
| 48 | 36.00 | 88.3 | 4.80 | 300 | 7680 | D3508N | $1-1462036-5$ |

Further coil versions are available on request.



Max. DC load breaking capacity


| InSUlation | Standard Version | High Dielectric Version |
| :--- | :---: | :---: |
| Insulation resistance at 500 VDC | $>10^{9} \Omega$ | $>10^{9} \Omega$ |
| Dielectric test voltage (1 min) <br> between coil and contacts <br> between adjacent contact sets <br> between open contacts | 1500 Vrms | 3500 Vrms |
| Surge voltage resistance | 1500 Vrms | 1800 Vrms |
| according to Bellcore TR-NWT-001089 (2/10 $\mu \mathrm{s})$ | 1000 Vrms | 1500 Vrms |
| between coil and contacts | 2500 V | 1500 V |
| between adjacent contact sets | 1500 V | 5000 V |
| between open contacts |  | 2500 V |
| according to FCC $68(10 / 160 \mu \mathrm{~s})$ | 2500 V | 2500 V |
| between coil and contacts | 1500 V | 5000 V |
| between adjacent contact sets | 1500 V | 2500 V |
| between open contacts |  | 2500 V |

## High Frequency Data

| Capacitance <br> between coil and contacts <br> between adjacent contact sets <br> between open contacts | $\max .4 \mathrm{pF}$ |
| :--- | :---: |
| max. 1 pF |  |
| max. 1 pF |  |
| RF Characteristics | $-30.6 \mathrm{~dB} /-13.7 \mathrm{~dB}$ |
| Isolation at $100 \mathrm{MHz} / 900 \mathrm{MHz}$ | $-0.02 \mathrm{~dB} /-0.50 \mathrm{~dB}$ |
| Insertion loss at $100 \mathrm{MHz} / 900 \mathrm{MHz}$ | $1.02 / 1.27$ |
| V.S.W.R. at $100 \mathrm{MHz} / 900 \mathrm{MHz}$ |  |

## General data

| Operate time at $U_{\text {nom }}$ typ. / max. | $3 \mathrm{~ms} / 5 \mathrm{~ms}$ |
| :---: | :---: |
| Release time without diode in parallel, typ. / max. | $2 \mathrm{~ms} / 5 \mathrm{~ms}$ |
| Release time with diode in parallel, typ. / max. | $4 \mathrm{~ms} / 5 \mathrm{~ms}$ |
| Bounce time at closing contact, typ. / max. | $1 \mathrm{~ms} / 5 \mathrm{~ms}$ |
| Maximum switching rate without load | 50 operations/s |
| Ambient temperature | $-55{ }^{\circ} \mathrm{C} \ldots+85^{\circ} \mathrm{C}$ |
| Thermal resistance | $<125 \mathrm{~K} / \mathrm{W}$ |
| Maximum permissible coil temperature | $150{ }^{\circ} \mathrm{C}$ |
| Vibration resistance (function) | $\begin{gathered} 10 \mathrm{G} \\ 10 \text { to } 1000 \mathrm{~Hz} \end{gathered}$ |
| Shock resistance, half sinus, 11 ms | 15 G (function) 500 G (damage) |
| Degree of protection / Environmental protection | immersion cleanable, IP 67 / RT III / RT V |
| Needle flame test | application time 20 s , no burning or glowing |
| Mounting position | any |
| Processing information | Ultrasonic cleaning is not recommended |
| Weight (mass) | max. 3 g |
| Terminal surface | SnCu 0,7 |
| Moisture sensitive level (JDEC J-STD-O20B) - SMD types | MSL 3 |
| Resistance | $260{ }^{\circ} \mathrm{C} / 10 \mathrm{~s}$ |

## Packing

Tube for THT version - 50 relays per stick, 1000 relays per box


Tape and reel for SMT version with long terminals - 400 relays per reel, 2000 relays per box


Tape and reel for SMT version with short terminals - 500 relays per reel, 2500 relays per box


## Recommended soldering conditions

Soldering conditions according IEC 60058-2-58 and IPC/JEDEC J-STD-020B


Vapor Phase Soldering: Temperature/Time Profile (Lead and Housing Peak Temperature)

Resistance to soldering heat-Reflow profile


Infrared Soldering: Temperature/Time Profile (Lead and Housing Peak Temperature)

Recommended reflow soldering profile


Infrared Soldering: Temperature/Time Profile
(Lead and Housing Peak Temperature)

## IM Relays

$4^{\text {th }}$ generation slim line - low profile polarized 2 c/o telecom relay with bifurcated contacts, available as non latching or latching relay with 1 coil. Nominal voltage range from 1.5 ... 24 V , coil power consumption of 140 ... 200 mW , latching relays with 1 coil 100 mW . The IM relay is available as through hole and surface mount type (J-Legs and Gull Wings) and capable to switch loads up to 60 W/62,5 VA. Dielectric strength fulfills the Bellcore requirements according GR 1089 ( $2,5 \mathrm{kV}$ $-2 / 10 \mu \mathrm{~s})$ and FCC part $68(1,5 \mathrm{kV}-10 / 160 \mu \mathrm{~s})$. The IM relay is CECC/IECO approved and certified in accordance with IEC/EN 60950 and UL1950. Dimensions approx. $10 \times 6 \mathrm{~mm}$ board space and 5.65 mm height.

## P2 Relays

$3^{\text {rd }}$ generation polarized $2 \mathrm{c} / \mathrm{o}$ telecom relay with bifurcated contacts, available as non latching or latching relay with 1 or 2 coils. Nominal voltage range from 3 ... 24 V , coil power consumption 140 mW , latching relays with 1 coil 70 mW . The P2 Relay is available as through hole or surface mount type and capable to switch currents up to 5 A. Dielectric strength fulfills the Bellcore requirements according GR $1089(2,5 \mathrm{kV}-2 / 10 \mu \mathrm{~s})$ and FCC part $68(1,5 \mathrm{kV}-10 / 160 \mu \mathrm{~s})$. Dimensions approx. $15 \times 7,5 \mathrm{~mm}$ board space and 10 mm height.

## FX Relays

$3^{\text {rd }}$ generation polarized 2 c/o telecom relay with bifurcated contacts, available as non latching or latching relay with 1 coil. Nominal voltage range from 3 ... 48 V , coil power consumption of 80 ... 260 mW for the high sensitive version, $140 \ldots 300 \mathrm{~mW}$ for the standard version, latching relays with 1 coil 100 mW . The FX2 relay is available as through hole type and capable to switch loads up to 60 W/62,5 VA. Dielectric strength fulfills the Bellcore requirements according GR 1089 ( $2,5 \mathrm{kV}$ $-2 / 10 \mu \mathrm{~s})$ and FCC part $68(1,5 \mathrm{kV}-10 / 160 \mu \mathrm{~s})$. The FX2 is CECC/ IECQ approved and certified in accordance with IEC/EN 60950 and UL1950. Dimensions approx. $15 \times 7,5 \mathrm{~mm}$ board space and $10,7 \mathrm{~mm}$ height.

## FT2 / FU2 Relays

$3^{\text {rd }}$ generation non polarized, non latching $2 \mathrm{c} / \mathrm{o}$ telecom relay with bifurcated contacts. Nominal voltage range from 3 ... 48 V , coil power consumption 200 ... 300 mW . Most sensitive 48 V relay. Available as through hole and surface mount type. Dielectric strength fulfills the Bellcore requirements according GR $1089(2,5 \mathrm{kV}-2 / 10 \mu \mathrm{~s})$ and FCC part $68(1,5 \mathrm{kV}-10 / 160 \mu \mathrm{~s})$. The FT2/FU2 is CECC/IECO approved and certified in accordance with IEC/EN 60950 and UL1950. Dimensions approx. $15 \times 7,5 \mathrm{~mm}$ board space and 10 mm height.

## FP2 Relays

$3^{\text {rd }}$ generation polarized $2 \mathrm{c} / \mathrm{o}$ telecom relay with bifurcated contacts available as non latching or latching relay with 1 or 2 coils. Nominal voltage range from 3 ... 48 V , coil power consumption of 80 ... 260 mW for the high sensitive version, 140... 300 mW for the standard version, latching relays with 1 coil 100 mW .. The FP2 Relay is available as through hole type and capable to switch loads up to 30 W/62,5 VA. Dielectric strength fulfills FCC part 68 (1,5 kV - 10 / $160 \mu \mathrm{~s})$. The FP2 is CECC/IECQ approved. Dimensions approx. $14 \times 9 \mathrm{~mm}$ board space and 5 mm height.

## MT2 / MT4

$2^{\text {nd }}$ generation non polarized, non latching $2 \mathrm{c} / \mathrm{o}$ and $4 \mathrm{c} / \mathrm{o}$ telecom and signal relay with bifurcated contacts. Nominal voltage range from 4.5 ... 48 V , coil power consumption 150/200/300/400 and 550 mW , and 300 mW (MT4). Dielectric strength fulfills the requirements according FCC part $68(1,5 \mathrm{kV}-10 / 160 \mu \mathrm{~s})$ for both and the Bellcore requirements according GR 1089 ( $2,5 \mathrm{kV}-2 / 10 \mu \mathrm{~s}$ ) the MT4 only.
Dimensions MT2 approx. $20 \times 10 \mathrm{~mm}$ board space and 11 mm height, MT4 approx. $20 \times 15 \mathrm{~mm}$ board space and 11 mm height.

## D2n Relays

$2^{\text {nd }}$ generation non polarized $2 \mathrm{c} / \mathrm{o}$ relay for telecom and various other applications. Nominal voltage range from 3 ... 48 V , coil power consumption from 150 .... 500 mW . The D2n relay is capable to switch currents up to 3 A . Dielectric strength fulfills the requirements according FCC part $68(1,5 \mathrm{kV}-10 / 160 \mu \mathrm{~s})$. Dimensions approx. $20 \times 10 \mathrm{~mm}$ board space and $11,5 \mathrm{~mm}$ height.

## P1 Relays

Extremely sensitive, polarized $1 \mathrm{c} / \mathrm{o}$ relay with bifurcated contacts for a wide range of applications, available as non latching or latching relay with 1 or 2 coils. Nominal voltage range from $3 \ldots 24 \mathrm{~V}$, coil power consumption 65 mW , latching relays with 1 coil 30 mW . The P 1 relay is available as through hole or surface mount type and capable to switch currents up to 1 A . Dielectric strength fulfills the requirements according FCC part $68(1,5 \mathrm{kV}-10 / 160 \mu \mathrm{~s})$. Dimensions approx. $13 \times 7,6 \mathrm{~mm}$ board space and 7 mm height for THT or 8 mm height for SMT version.

## W11 Relays

Low cost, non polarized $1 \mathrm{c} /$ o relay for various applications. Nominal voltage range from $3 \ldots 24 \mathrm{~V}$, coil power consumption 450 mW , sensitive versions 200 mW . The W11 relay is capable to switch currents up to 3 A . Dielectric strength 1000 Vrms. Dimensions approx. $15,6 \times 10,6 \mathrm{~mm}$ board space and $11,5 \mathrm{~mm}$ height.

## Reed Relays

High sensitive, non polarized relay for telecom and various other applications, available with 1 n/o, 2 n/o or 1c/o contacts. Nominal voltage range from $5 \ldots 24 \mathrm{~V}$, coil power consumption $50 \ldots 280 \mathrm{~mW}$ for $1 \mathrm{n} / \mathrm{o}$ and $125 \ldots 280 \mathrm{~mW}$ for $2 \mathrm{n} / \mathrm{o}$ or $1 \mathrm{c} / \mathrm{o}$ versions. Reedrelays are available in DIP or SIL housing and capable to switch currents up to 0,5 A. Integrated diode and/or electrostatic shield optional. Dielectric strength 1500 Vdc . Dimensions approx. $19,3 \times 7 \mathrm{~mm}$ board space and 5 ... $7,5 \mathrm{~mm}$ height for DIP or $19,8 \times 5 \mathrm{~mm}$ board space and $7,8 \mathrm{~mm}$ height for SIL version.

## Cradle Relays

Extremely reliable and mature relay family of $1^{\text {st }}$ generation for various signal switching applications. Available as non polarized, polarized / latching and relay with AC coil. The benefit is the possibility of combining various contact sets from 1 up to 6 poles, single and bifurcated contacts, different contact materials with a coil voltage range from $1,5 \mathrm{Vdc}$ to 220 Vac . Cradle relays are available as dust protected and hermetically sealed versions, with plug in or solder terminals and are capable to switch currents up to 5 A . Forcibly guided (linked) contact sets optional. Dielectric strength 500 Vrms. Dimensions from approx. $19 \times 24$ to $19 \times 35 \mathrm{~mm}$ board space and 30 mm height.

## Other Relays

We offer a variety of different relay families for maintenance and replacement purposes. These relays are up to 60 years old now, such as Card Relay SN (V23030 / V23031 series), Small General Purpose Relay (V23006 series), Small Polarized Relay (V23063 ... V23067 and V23163 ... V23167 series). Accessories like sockets, hold down springs, etc. optional.

## HF3 Relay

High performance low cost RF relay with excellent RF characteristics. Available with an impedance of 50 and 75 Ohm. Suitable for frequencies up to 3 GHz . Actually smallest RF relay available combining small size, excellent RF performance and SMD solderability. Available as non latching or latching relay with 1 or 2 coils and a nominal coil voltage range from 3 ... 24 V , coil power consumption 140 mW , latching relays with 1 coil 70 mW . Dimensions $14.6 \times 7.3 \times 10 \mathrm{~mm}$.

AXICOM

## Electronics



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