

Automation News

PRODUCTS FOR ADVANCED TECHNOLOGY

Components

T-631
Sep. 30, 1999




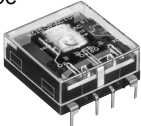
Announcement of discontinued production







We would like to inform you of the discontinued products as below.

1. Already discontinued products
2. Discontinued products in 2,000
3. Products that are planned for discontinuance


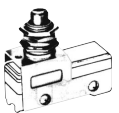





1. Already discontinued products

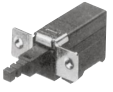



• Relays

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------|-----------------------------|-------------------------------------------|--------------------------------|
| JE-X relays Dust cover type  | JE1aXN-DC· JE1XN-DC· | JE-X relays Flux resistant type | JE1aXN-DC--H JE1XN-DC--H | Unified to Flux-Resistant type | Discontinued from Nov. 1999 |
| NT relays AC type  | NT1-AC·V | NC relay slim type HC relays | NC2D-P-AC· HC--HP-AC· | Less needs caused by decreasing demand | Discontinued from Nov. 1999 |
| JH relays AC type & Terminal screw type  | JH---AC·V JH-s---V | HE relays (1 Form A, 2 Form A single only) | HE·N---AC·V HE·N---V | Less needs caused by decreasing demand | Discontinued from Nov. 1999 |
| NC relays 6V AC type  | NC----AC6V | HC relays | HC----AC·V | Less needs caused by decreasing demand | Discontinued from Nov. 1999 |

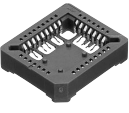
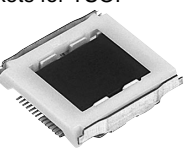
| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|
| HP relays solder terminal socket for round hole punching  | HP--SRR | HP relays solder terminal socket for rectangular hold boring | HP--SRS | Less needs caused by decreasing demand | Discontinued from Nov. 1999 |
| HG relays socket (without UL/CSA)  | HG--SS | HG relays socket (with UL/CSA) | No change in part numbers | Unified to UL/CSA approved type | Discontinued from Nov. 1999 |
| JC relays socket (without UL/CSA)  | JC--S | JC relays (with UL/CSA) | No change in part numbers | Unified to UL/CSA approved type | Discontinued from Nov. 1999 |
| NT relays socket (without UL/CSA)  | NT--S | NT relays (with UL/CSA) | No change in part numbers | Unified to UL/CSA approved type | Discontinued from Nov. 1999 |
| AQ-P Solid state relays  | AQP--A2-Z4/30V DC | AQ-R Solid state relays | AQR10A1--Z.VDC AQR10A2--Z.VDC AQR15A1--Z.VDC AQR15A2--Z.VDC AQR20A1--Z.VDC AQR20A2--Z.VDC | Less needs caused by decreasing demand (already informed 1997 Jul.(A-News T-561)) | Discontinued from Aug. 1999 (Re-confirmation) |
| HP relays (for Aromat)  | HP31... HP32... HP33... | None | — | Less needs caused by decreasing demand | Discontinued from Nov. 1999 |

• Switches




| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|-----------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------|-----------------------------|
| GZ switches  | AM2... | None | — | Decreasing demand | Discontinued from May. 1995 |
| Actuators for Z Basic switches  | AA1... | NZ, Basic Switches which have actuators  | AM1... | Decreasing demand | Discontinued from May. 1995 |
| NV sealing switches  | AH8... | Turquoise Switches V type  | ABV... | Turquoise switches which have superior sealing construction have been released. | Discontinued from Dec. 1997 |
| FD switches  | AB8... | New FD switches  | ABU8... | Substituted products have been released. | Discontinued from Nov. 1998 |

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|-------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------|-----------------------------|
| Power push switches P5 switches  | AAP5... | PZ switches  | AAP5Z... | Substituted products have been released. | Discontinued from Nov. 1998 |
| P8 switches  | AAP8... | PY switches  | AAP8Y... | Substituted products have been released *Please consult us if contact gap min. 3mm type is necessary. | End of Nov. 1999 |





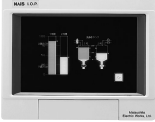


• Connectors

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|----------------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------------|-----------------------------------------|-----------------------------|
| IC sockets for PLCC  | AXS8... | None | — | Decreasing demand | Discontinued from Nov. 1998 |
| IC sockets for TSOP  | AXS7... | None | — | Less market needs and decreasing demand | End of Nov. 1999 |



• Built-in Sensors / Electronics Devices

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|-----------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------|-----------------------------|
| SM-H shock sensors  | ADS1... | None | — | Technical difficulty for production and rare demand | Discontinued from Nov. 1998 |
| Motion-detecting sensors  | AMV... | MA Motion sensors  | AMB... | Substituted products have been released. | End of Nov. 1999 |
| Air ways | ABN1... | None | — | Stop of "Air way" production business. (However, the maintenance of the products will be continued.) | Discontinued from Dec. 1998 |



• I.O.P./Inverter







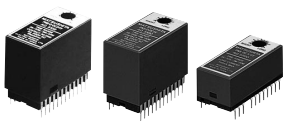





| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|----------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|--------------------|
| I. O. P. M20 series  | AIP2*** | None | None | Discontinued electronic parts | Nov. 1999 |
| I. O. P. M30 series  | AIP3*** | None | None | Discontinued electronic parts | Nov. 1999 |
| I. O. P. B30TC  | AIB3*** | None | None | Discontinued electronic parts | Nov. 1999 |
| I. O. P. D30TC  | AID3*** | None | None | Discontinued electronic parts | Nov. 1999 |
| I. O. P. D40TH  | AID4304 AIP4851 | None | None | Discontinued electronic parts | Nov. 1999 |
| VF6E-VF6 Inverter  | BFV6*** (except for 45 kW or more) | VF7E for up to 3.7 kW VF8X for 5.5 kW  | BFV7***F BFV7***E BFV8***X | Introduce new product | Nov. 1999 |

• Super microwave sensor/Barcode reader

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------------|--------------------|--------------------|
| US100 Super microwave sensor  | ANU1**** | None | — | Decreasing demand | Nov. 1999 |
| AVB Barcode reader  | AVB**** | None | — | Decreasing demand | Nov. 1999 |



• Timers

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Completion schedule |
|-----------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| LT48 digital timers (8-pin)  | LT48 | LT4H digital timers (8-pin)  | LT4H | <ul style="list-style-type: none"> • Changeover is possible due to the release of the LT4H digital timer in response to market needs. • Production of the micro computer suspended. | Dec. 1997 |

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| LT48W digital timers (8-pin)  | LT48W | LT4H-W digital timers (8-pin)  | LT4H-W | <ul style="list-style-type: none"> • Changeover is possible due to the release of the LT4H-W digital timer in response to market needs. • Production of the micro computer suspended. | Dec. 1997 |
| QM48S digital timers (8-pin)  | QM48S | LT4H digital timers (8-pin)  | LT4H | <ul style="list-style-type: none"> • Changeover is possible due to the release of the LT4H digital timer in response to market needs. • Production of the micro computer suspended. | Dec. 1997 |
| QM72S digital timers (Screw type)  | QM72S | LT4H digital timers (Screw type)  | LT4H | <ul style="list-style-type: none"> • Changeover is possible due to the release of the LT4H digital timer in response to market needs. • Production of the micro computer suspended. • Size is changed DIN72→48 | Dec. 1997 |
| PNS time units  | AQ5*** (Three types with operating voltages: DC5V, DC6V, and DC5V to DC6V.) | None | None | <ul style="list-style-type: none"> • Production of the micro computer suspended. | Aug. 1999 |
| DIN rail socket (8-pin)  | ATC18003 | DIN rail socket (8-pin)  | ATC180031 | Introduce new product | Sep. 1999 |
| DIN rail socket (11-pin)  | ATC18004 | DIN rail socket (11-pin)  | ATC180041 | Introduce new product | Sep. 1999 |
| S1DX timers (Transistor Timed-out Normally OFF)  | S1DX-AT*** | S1DX timers Relay output type  | S1DX-A*** | <ul style="list-style-type: none"> • Production of the base block used for socket is suspended. • Output Form: Transistor Timed-out Normally OFF→Relay output type | Nov. 1999 |











Note: As for discontinued products and replacement product, please check on specifications when ordering. They might vary depending on the products.

• Hour Meters

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|---------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| TH30 Hour Meters  | TH30 | LT4H Digital timers LT4H-W Digital timers  | LT4H | <ul style="list-style-type: none"> • Less needs caused by decreasing demand • The input method will change to: voltage input→non-voltage input | Apr. 1996 |





Note: As for discontinued products and replacement product, please check on specifications when ordering. They might vary depending on the products.

• Counters

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|  <p>PMC counters</p> | AK5 |  <p>LC4H Electronic counters</p> | LC4H | <ul style="list-style-type: none"> • Less needs caused by decreasing demand • The size and mounting method changes • The input method will change to: voltage input→non-voltage input | Apr. 1996 |
|  <p>LC48 Electronic counters (Relay type: 11-pin) (Tr type: 8-pin)</p> | LC48 |  <p>LC4H Electronic counters (Relay type: 11-pin) (Tr type: 8-pin)</p> | LC4H | <ul style="list-style-type: none"> • Changeover is possible due to the release of the LC4H digital timer in response to market needs. • Production of the micro computer suspended. | Dec. 1997 |
|  <p>LC48W Electronic counters (11-pin)</p> | LC48W |  <p>LC4H-W Electronic counters (11-pin)</p> | LC4H-W | <ul style="list-style-type: none"> • Changeover is possible due to the release of the LC4H-W digital timer in response to market needs. • Production of the micro computer suspended. | Dec. 1997 |
|  <p>EM48S Electronic counters (8-pin)</p> | EM48S |  <p>LC4H Electronic counters (8-pin)</p> | LC4H | <ul style="list-style-type: none"> • Changeover is possible due to the release of the LC4H digital timer in response to market needs. • Production of the micro computer suspended. | Dec. 1997 |
|  <p>EM72S Electronic counters (Screw type)</p> | EM72S |  <p>LC4H Electronic counters (Screw type)</p> | LC4H | <ul style="list-style-type: none"> • Changeover is possible due to the release of the LC4H digital timer in response to market needs. • Production of the micro computer suspended. • Size will change from: DIN72→48 | Dec. 1997 |

Note: As for discontinued products and replacement product, please check on specifications when ordering. They might vary depending on the products.





• Limit Switches

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------|--------------------|
|  <p>ML Limit SW Neon lamp wired type</p> | AZ74***41 AZ74***42 |  <p>ML Limit SW Epoxy-sealed terminal type</p> | AZ74*** | The molding die is worn out. The replace parts is available. | Jul. 1999 |
|  <p>Horizontal Limit SW</p> | AZ1*** AZ2*** |  <p>Slitted type Limit SW</p> | AZ6*** | The molding die is worn out. The replace parts is available. | Sep. 1999 |




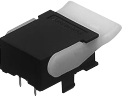
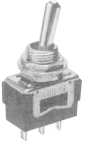


2. Discontinued products in 2,000

• Relays

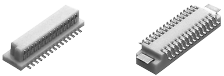
Your order ins will be processed until 3 months before discontinued dates.

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|-------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------|--------------------|
| NF relays MBB type  | NF-EB-2M-- NF-EB-4M-- | TQ relays MBB type  | TQ2---2M-- | Less needs caused by decreasing demand | Aug. 2000 |
| I/O board  | AQ680... AQ681... AQ682... | None | — | Less needs caused by decreasing demand | Aug. 2000 |
| Sensitive hybrid relay  | AGH1029 | None | — | Less needs caused by decreasing demand | Aug. 2000 |

• Switches






| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------|--------------------|
| WS switches  | AWS1... AWS9... | None | — | Less market needs and decreasing demand | End of Aug. 2,000 |
| GU switches  | AVG4... | FU switches  | AV4... | FU switches cover all the types of GU switches and they have superior characteristics. | End of Aug. 2,000 |
| Hook switches  | AV8... | None | — | Less market needs and decreasing demand | End of Aug. 2,000 |
| J3 toggle switches  | AJ3... | J4 toggle switches  | AJ4... | J4 toggle switches cover J3 toggle switches on characteristics. | End of Aug. 2,000 |
| J2 slim paddle-actuator type switches  | AJ2S... | None | — | Less market needs and decreasing demand | End of Aug. 2,000 |

• Connectors

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------|----------------------|-----------------------------------------|--------------------|
| Narrow-pitch connectors Feed-through type  | AXK2... | None | — | Less market needs and decreasing demand | End of Aug. 2,000 |










• PLC/I.O.P.

Your order-in will be processed until 3 months before phase-out schedule.

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|--------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------|--------------------|
| PLC FP5 series  | AFP5*** | Programmable controllers FP3 series FP2 series  | AFP3*** AFP2*** | Discontinued electronic parts, decreasing demand and release of new products | Aug. 2000 |
| PLC FP10  | AFP6241*** AFP6251*** | Programmable controllers FP10SH series FP2 series  | AFP6211** AFP6221** AFP2*** | Discontinued electronic parts, decreasing demand and release of new products | Aug. 2000 |
| I.O.P. B01, M01, D01  | AIB1***** AIP1*** AID1*** | developing | developing | Discontinued electronic parts | May. 2000 |









• IMAGE CHECKER

Your order-in will be processed until 3 months before phase-out schedule.

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------|--------------------|
| Color IMAGE CHECKER  | ANH11* ANH11*** | None | None | Discontinued electronic parts and decreasing overseas demand | Aug. 2000 |
| IMAGE CHECKER 30 series  | ANB3*** | IMAGE CHECKER B410 Micro IMAGE CHECKER  | ANB4**** ANM*** | Discontinued electronic parts and new products released | Aug. 2000 |
| IMAGE CHECKER B110 series  | ANB1**** | IMAGE CHECKER B410 Micro IMAGE CHECKER  | ANB4**** ANM*** | Discontinued electronic parts and new products released | Aug. 2000 |
| Color select unit  | ANB7116** ANB7116*** | Digital color select unit  | ANB712*** | Discontinued electronic parts and new products released | Aug. 2000 |
| IMAGE CHECKER G110 series  | ANG11*** | IMAGE CHECKER G120 series  | ANG12*** | Discontinued electronic parts and new products released | Aug. 2000 |



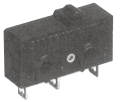









• Laser sensor

Your order-in will be processed until 3 months before phase-out schedule.

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------|--------------------|
| LM100 Laser analog sensor (Invisible type)  | ANL1***C | LM100 visible red type or LM10 laser sensor  | ANL1***RC or ANR*** | Discontinued electronic parts | Aug. 2000 |
| LM200 Laser analog sensor (Invisible type)  | ANL2***C | LM200 visible red type or LM10 laser sensor  | ANL2***RC or ANR*** | Discontinued electronic parts | Aug. 2000 |
| LM 300 Laser analog sensor (Invisible type)  | ANL3***C | LM300 visible red type  | ANL3***RC | Discontinued electronic parts | Aug. 2000 |
| MQ Laser analog sensor  | AN6*** | LM10 Laser sensor  | ANR*** | Discontinued electronic parts | Aug. 2000 |

3. Products to be discontinued

For new customers, please advise them following recommended products. we will continue to supply for the on going project.

| Products name | Old part no. | Substituted products name | Substituted part no. | Reason and remarks | Phase-out schedule |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| GV switches  | AH4... | QV switches  | AM5... | QV switches cover all the types of GV switches and they have superior characteristics | Undecided |
| QS switches  | AH3A... | FS switches  FS-T switches  PS switches  | AV3... AVM3... AVT3... AVL3... AVM3...P | Recommended products cover all the types of QS switches and they have superior characteristics | Undecided |
| FJ switches (mounting hole 1.2mm type)  | AH11... (Solder terminal) AH12... (PC board terminal) | FJ switches (mounting hole 2.0mm type)  | AH14... AH16... | Decreasing demand as mounting hole 2.0mm type is the trend | Undecided |
| New J9 switches  | AJ915... AJ925... | New J9 switches  | AJ911... AJ921... | As new J9 switches have PC board and soldering terminal of 21 A rating which is superior to J9 switches of 16 A rating. However, the lineup of J9 switches is more than New J9 switches, and, the market require for 21 A rating is rare. | Undecided |
| J7 switches momentary type  | AJ7129B01 | J7 switches  | AJ7... | The market require for momentary function. *<ON>-OFF-<ON> is rare. Please recommend customers for J7 switches ON-OFF type. * < > indicates momentary position | Undecided |