

# THE CONNECTED HOME

INNOVATIVE SOLUTIONS

# OUR SOLUTIONS ENABLE YOU TO DESIGN THE HOME OF TOMORROW.

With our global network of engineers, TE Connectivity (TE) can help turn your vision for connected home applications into a reality. With a broad range of connectivity and sensor solutions for home appliances and devices, lighting, HVAC, security, and more, TE is the ideal partner to help you bring your products to market fast.



## 1 ENVIRONMENT SENSING



## 2 EQUIPMENT




## 3 ACTUATORS



## 4 CONTROLS



# FEATURED PRODUCTS




1.5mm Mini CT Connectors **2 3 4**

[Product Details](#)  
[Quick Reference Guide](#)




Economy Power (EP) 2.5mm Connectors **1 2 3 4**

[Product Details](#)  
[Quick Reference Guide](#)



IM Relays **2 4**

[Product Details](#)  
[Datasheet](#)  
[Definitions](#)



P2 Relays **2 4**

[Product Details](#)  
[Definitions](#)



Eurostyle Terminal Blocks **2 3 4**

[Product Details](#)



Free Height Connectors, 0.5mm Pitch **2 4**

[Product Details](#)  
[Catalog](#)  
[Product Specification](#)



T9A 30A Power PCB Relay **2 3**

[Product Details](#)  
[Data Sheet](#)




FSM / FSMMST Series Tactile Switches **1 2 3 4**

[Product Details](#)  
[Catalog](#)




High Performance Interconnect (HPI) Connectors **1 2 3 4**

[Product Details](#)  
[Quick Reference Guide](#)




Modular Screwless Terminal Blocks, 2.5/2.54/3.5/3.81mm Pitch, 1 Pc. PCB **1 2 3 4**

[Product Details](#)  
[Catalog](#)  
[Quick Reference Guide](#)




GDH Series DIP Switch **1 2 3 4**

[Product Details](#)  
[Catalog](#)




S/SE Series Slide Switches **2 3 4**

[Product Details](#)  
[Catalog](#)




Modular Screwless Terminal Blocks, 5.0mm Pitch, 1 Pc. PCB **1 2 3 4**

[Product Details](#)  
[Catalog](#)  
[Quick Reference Guide](#)



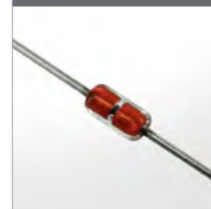
Power Triple Lock Connectors **2 3 4**

[Product Details](#)  
[Video](#)  
[Quick Reference Guide](#)




HTU21x Series Sensors **1 2 4**

[Product Details](#)



Leadless Chip, 44000 Series, DO-35 Packaged Probe Sensors **1 2 4**

[Product Details](#)



RAST 5 PCB Connectors **1 2 3 4**

[Product Details](#)  
[Flyer](#)  
[Catalog](#)



RJ45 Connectors **1 2 4**

[Product Details](#)  
[Catalog](#)




M-100 Minisense Vibration Sensors **1 3**

[Product Details](#)




M5200, U5300, US300, MSP300 Sensors **1 2**

[Product Details](#)



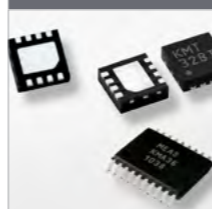
Signal Double Lock Connectors **1 2 3 4**

[Product Details](#)  
[Quick Reference Guide](#)




Spring Fingers **1 2 3 4**

[Product Details](#)  
[Quick Reference Guide](#)  
[White Paper](#)



MS32, KMT32, KMA36 Linear and Rotary Sensors **1 3 4**

[Product Details](#)




MS45x5, MS5525DSO, MS5637, MS5611, MS5803 Sensors **1 2 4**

[Product Details](#)




Surface Mount (SMT) Antennas **1 2 3 4**

[Product Details](#)  
[Quick Reference Guide](#)  
[Catalog](#)



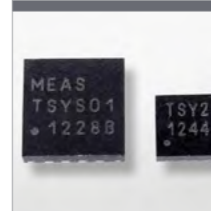
Tab Mount (Through Hole) Antennas **1 2 3 4**

[Product Details](#)  
[Data Sheet](#)  
[Catalog](#)



MS8607 Sensors **1 2 4**

[Product Details](#)



TSYS01, TSYS02 Sensors **1 2 4**

[Product Details](#)

# INTERCONNECT

| PRODUCT CATEGORY                           |  | APPLICATIONS |          |   |   | Max Current Rating (A) | Max Voltage Rating (V) | Operating Temperature Range (°C) | Pitch (mm)                         | # of Positions | PCB Mounting Style | Mated Height (mm) | Wire Gauge  | Contact Interface Plating Options | Wire-to-Wire | Wire-to-Board | Board-to-Board |
|--|--|--------------|----------|---|---|------------------------|------------------------|----------------------------------|------------------------------------|----------------|--------------------|-------------------|-------------|-----------------------------------|--------------|---------------|----------------|
|  |  | 1            | 2        | 3 | 4 |                        |                        |                                  |                                    |                |                    |                   |             |                                   |              |               |                |
| Env. Sensing                               | Equipment  | Actuators    | Controls |   |   |                        |                        |                                  |                                    |                |                    |                   |             |                                   |              |               |                |
| <b>COMPRESSIVE CONTACTS</b>                |  |              |          |   |   |                        |                        |                                  |                                    |                |                    |                   |             |                                   |              |               |                |
| Spring Fingers                             | Spring Fingers                                     | *            | *        | * | * | 4                      | 50 V                   | -40 to +85                       | N/A                                | N/A            | SMT                | 1.0 - 4.3         | N/A         | Gold                              |              |               | *              |
| Board-to-Board (1 pc)                      | Compressive Contacts                               | *            | *        | * | * | 0.5                    | 30 VAC                 | -55 to +85                       | 0.7-2.0                            | N/A            | SMT                | 0.7 - 3.15        | N/A         | Tin / Gold                        |              |               | *              |
| <b>SIGNAL CONNECTORS</b>                   |  |              |          |   |   |                        |                        |                                  |                                    |                |                    |                   |             |                                   |              |               |                |
| Board-to-Board Connectors (2 pc)           | Free Height Connectors, 0.5mm Pitch                | *            | *        | * | * | 0.5                    | 50 VAC                 | -30 to +105                      | 0.5                                | 220 - 440      | SMT                | 1.5 - 6           | N/A         | Gold                              |              |               | *              |
|  | Free Height Connectors, 0.8mm Pitch                | *            | *        | * | * | 0.5                    | 100 VAC                | -40 to +105                      | 0.8                                | 40 - 200       | SMT                | 5 - 20            | N/A         | Gold                              |              |               | *              |
|  | AMPMODU Connectors, 1.27mm Pitch                   |              |          |   | * | 1                      | 133 V                  | -65 to +105                      | 1.27                               | 10 - 100       | SMT / TH           | N/A               | N/A         | Tin / Gold                        |              |               | *              |
|  | AMPMODU Connectors, 2.0mm Pitch                    |              |          |   | * | 2                      | 150 V                  | -55 to +105                      | 2.0                                | 1 - 100        | SMT / TH           | N/A               | 26 - 30     | Tin / Gold                        |              |               | *              |
|  | AMPMODU Connectors, 2.54mm Pitch                   |              |          |   | * | 3                      | 250 V                  | -55 to +105                      | 2.54                               | 1 - 80         | SMT / TH           | N/A               | 20 - 32 AWG | Tin / Gold                        | *            |               | *              |
| Flexible Printed Circuit (FPC)             | FPC Connectors, 0.25mm Pitch                       | *            | *        | * | * | 0.2                    | 50 VAC                 | -25 to +85                       | 0.25                               | 37 - 51        | SMT                | 1.3               | N/A         | Gold                              |              |               | *              |
|  | FPC Connectors, 0.30mm Pitch                       | *            | *        | * | * | 0.2                    | 50 VAC                 | -25 to +85                       | 0.3                                | 25 - 71        | SMT                | 0.9 - 1.3         | N/A         | Gold                              |              |               | *              |
|  | FPC Connectors, 0.50mm Pitch                       | *            | *        | * | * | 0.5                    | 50 VAC                 | varies                           | 0.5                                | 4 - 60         | SMT / TH           | 0.9 - 4           | N/A         | Tin / Gold                        |              |               | *              |
|  | FPC Connectors, 1.0mm Pitch                        | *            | *        | * | * | 0.5                    | 50 VAC                 | varies                           | 1                                  | 3 - 30         | SMT / TH           | 0.9 - 4           | N/A         | Tin / Gold                        |              |               | *              |
|  | FPC Connectors, 1.25mm Pitch                       | *            | *        | * | * | 0.5                    | 50 VAC                 | varies                           | 1.25                               | 4 - 40         | TH                 | 0.9 - 4           | N/A         | Tin / Gold                        |              |               | *              |
| Flat Flexible Cable (FFC)                  | FFC Contacts, 1.27 and 2.54mm Pitch                | *            | *        | * | * | 0.5                    | 50 VAC                 | varies                           | 1.27 & 2.54                        | 2 - 70         | N/A                | 0.9 - 4           | N/A         | Tin / Gold                        | *            |               | *              |
| Ribbon Cable Connectors                    | AMP-LATCH Ribbon Cable Connectors                  | *            | *        | * | * | 1                      | 50 VAC                 | -55 to +125                      | 2.54                               | 6 - 64         | SMT / TH           | varies            | 26 - 32     | Tin / Gold                        |              |               | *              |
| Wire-to-Board Connectors                   | Micro SLP Connector, 0.8mm Pitch                   | *            | *        | * | * | 1                      | 30 VAC                 | -25 to +85                       | 0.8                                | 2              | SMT                | 1.4               | 32          | Tin / Gold                        |              |               | *              |
|  | 1.2mm Wire-to-Board Connectors                     | *            | *        | * | * | 2                      | 50 V                   | -25 to +85                       | 1.2                                | 2 - 6          | SMT                | 1.4               | 28 - 30     | Gold                              |              |               | *              |
|  | 1.5mm Mini CT Connectors                           | *            | *        | * | * | 1 - 3                  | 50 VAC                 | -30 to +105                      | 1.5                                | 2 - 40         | SMT / TH           | varies            | 24 - 28     | Tin / Gold                        | *            |               | *              |
|  | 2.0mm CT Connectors                                | *            | *        | * | * | 1 - 4                  | 125 VAC                | -40 to +105                      | 2.0                                | 2 - 30         | SMT / TH           | varies            | 22 - 30     | Tin / Gold                        | *            |               | *              |
|  | High Performance Interconnect (HPI) Connectors     | *            | *        | * | * | 1 - 3                  | 50 - 250 VAC           | -40 to +105                      | 1.00 - 2.50                        | 2 - 40         | SMT / TH           | varies            | 22 - 32     | Tin / Gold                        |              |               | *              |
|  | Economy Power (EP) 2.5mm Connectors                | *            | *        | * | * | 4                      | 250 VAC                | -55 to +105                      | 2.5                                | 2 - 40         | TH                 | varies            | 20 - 26     | Tin                               | *            |               | *              |
|  | Signal Double Lock Connectors                      | *            | *        | * | * | 3                      | 50 VAC/VDC             | -30 to +105                      | 2.5                                | 2 - 13         | TH                 | varies            | 20 - 26     | Tin                               | *            |               | *              |
|  | MTA-100 CL (IDC) and CST II (crimp) Connectors     | *            | *        | * | * | 5                      | 250 VAC                | -55 to +105                      | 2.54                               | 2 - 28         | SMT / TH           | varies            | 20 - 26     | Tin / Gold                        | *            |               | *              |
|  |  |              |          |   |   |                        |                        |                                  |                                    |                |                    |                   |             |                                   |              |               |                |
| <b>MEMORY</b>                              |  |              |          |   |   |                        |                        |                                  |                                    |                |                    |                   |             |                                   |              |               |                |
| Micro Secure Digital (SD)                  | Micro Secure Digital (SD) Memory Card Connectors   | *            | *        | * | * | 0.5                    | 30 VAC                 | -25 to +85                       | 1.1                                | 12             | SMT / TH           | 1.95              | N/A         | Gold                              |              |               | *              |
| SIM Card Connectors                        | SIM Connectors, 1.5mm Height                       | *            | *        | * | * | 1                      | 30 VAC/VDC             | -30 to +85                       | 2.5                                | 8              | SMT / TH           | 0.3 - 2.6         | N/A         | Gold                              |              |               | *              |
| <b>INPUT/OUTPUT</b>                        |  |              |          |   |   |                        |                        |                                  |                                    |                |                    |                   |             |                                   |              |               |                |
| USB Connectors                             | Type A Receptacle                                  | *            | *        | * | * | N/A                    | 30 VAC                 | -55 to +85                       | multiple                           | 4,8,9,12,16    | SMT / TH           | N/A               | N/A         | Gold                              |              |               | *              |
|  | Type B Receptacle                                  | *            | *        | * | * | N/A                    | 30 VAC                 | -55 to +85                       | multiple                           | 4              | SMT / TH           | N/A               | N/A         | Gold                              |              |               | *              |
|  | Type C Receptacle                                  | *            | *        | * | * | 5                      | 20 V                   | -30 to +85                       | 0.5                                | 14, 24         | SMT                | varies            | N/A         | Gold                              | *            |               | *              |
|  | Mini USB Connectors                                | *            | *        | * | * | 1.8                    | N/A                    | -65 to +85                       | 0.65                               | 5              | SMT                | N/A               | N/A         | Gold                              |              |               | *              |
|  | Micro USB Connectors                               | *            | *        | * | * | 1.8                    | N/A                    | -65 to +85                       | multiple                           | 5              | SMT                | varies            | N/A         | Gold                              |              |               | *              |
| RF Connectors                              | RF BNC Connectors                                  | *            | *        | * | * | N/A                    | 1500 VAC               | -65 to +85                       | single                             | 1              | TH                 | varies            | varies      | Gold                              | *            |               | *              |
|  | RF SMA Connectors                                  | *            | *        | * | * | N/A                    | 1500 VAC               | -65 to +165                      | single                             | 1              | TH                 | varies            | varies      | Gold                              | *            |               | *              |
| Modular Jack                               | RJ45 (8 pos/8 contacts)                            | *            | *        | * | * | Signal App Only        | 150 VAC                | -40 to +85                       | 2.54                               | N/A            | N/A                | varies            | N/A         | Gold                              | *            |               | *              |
| <b>BATTERY</b>                             |  |              |          |   |   |                        |                        |                                  |                                    |                |                    |                   |             |                                   |              |               |                |
| Battery Connectors                         | 5A Low Profile Battery Connectors                  | *            | *        | * | * | 5                      | 30 VDC                 | -40 to +85                       | 2.5                                | 4              | SMT                | N/A               | N/A         | Gold                              |              |               | *              |
| Coin Cell Holder                           | CR2032 Coin Cell Battery Holder                    | *            | *        | * | * | 1                      | 30-250 VAC             | -55 to +105                      | N/A                                | N/A            | N/A                | N/A               | N/A         | Tin                               |              |               | *              |
| <b>TERMINAL BLOCKS</b>                     |  |              |          |   |   |                        |                        |                                  |                                    |                |                    |                   |             |                                   |              |               |                |
| Eurostyle Terminal Blocks                  | 5.0 / 5.08mm Pitch, 2 Piece Wire-to-Board          | *            | *        | * | * | 15                     | 250-300                | -40 to +110                      | 5 / 5.08                           | 2 - 24         | STH                | varies            | varies      | Tin                               | *            |               | *              |
|  | 3.5 / 3.81mm Pitch, 2 Piece Wire-to-Board          | *            | *        | * | * | 11                     | 250-300                | -40 to +110                      | 3.5 / 3.81                         | 2 - 24         | STH                | varies            | varies      | Tin                               |              |               | *              |
|  | 5.0 / 5.08mm Pitch, 1 Piece PCB                    | *            | *        | * | * | 15                     | 250-300                | -40 to +110                      | 5 / 5.08                           | 2 - 24         | STH                | varies            | varies      | Tin                               |              |               | *              |
|  | 2.54 / 3.5 / 3.81mm Pitch, 1 Piece PCB             | *            | *        | * | * | 10-12                  | 150                    | -40 to +110                      | 2.54 / 3.5 / 3.81                  | 2 - 24         | STH                | varies            | varies      | Tin                               |              |               | *              |
| Modular Screwless Terminal Blocks          | 2.5 / 2.54 / 3.5 / 3.81mm Pitch, 1 Piece PCB       | *            | *        | * | * | 6                      | 300 VAC                | -40 to +105                      | 2.5 / 2.54 / 3.5 / 3.81            | 2 - 8          | TH                 | N/A               | 14 - 26     | Tin                               | *            |               | *              |
|  | 5.0mm Pitch, 1 Piece PCB                           | *            | *        | * | * | 8                      | 300 VAC                | -40 to +105                      | 5.0                                | 2 - 8          | TH                 | N/A               | 16 - 20     | Tin                               |              |               | *              |
| Barrier Blocks                             | Dual-Barrier Strips 0.250" / 0.325" / 0.375" Pitch | *            | *        | * | * | 10-20                  | 150 / 300 / 600        | -40 to +105                      | 0.250" / 0.325" / 0.375" / 0.4375" | 2 - 30         | TH                 | N/A               | varies      | Tin                               |              |               | *              |
|  | Tri-Barrier Strips 0.250" / 0.325" / 0.375" Pitch  | *            | *        | * | * | 10-30                  | 300/600                | -40 to +105                      | 0.250" / 0.325" / 0.375" / 0.4375" | 2 - 30         | TH                 | N/A               | varies      | Tin                               |              |               | *              |
| <b>POWER CONNECTORS</b>                    |  |              |          |   |   |                        |                        |                                  |                                    |                |                    |                   |             |                                   |              |               |                |
| RAST-Compliant Wire-to-Board               | 2.5mm Connectors                                   | *            | *        | * | * | 2/6                    | 50V/250 VAC            | -40 to +110                      | 2.5                                | 3 - 15         | TH                 | varies            | 22 - 12     | Tin / Silver                      | *            |               | *              |
|  | 5mm Connectors                                     | *            | *        | * | * | 10/16                  | 250 VAC                | -40 to +130                      | 5                                  | 2 - 8          | TH                 | varies            | 24 - 18     | Tin / Silver                      | *            |               | *              |
| Power 2 Piece Wire-to-Wire / Wire-to-Board | Universal MATE-N-LOK Connectors                    | *            | *        | * | * | 19                     | 600 VAC                | -55 to +125                      | 6.35                               | 1 - 15         | TH                 | varies            | 30 - 10     | Tin / Gold                        | *            |               | *              |
|  | Micro MATE-N-LOK Connectors                        | *            | *        | * | * | 5                      | 250 VAC                | -40 to +105                      | 3.0                                | 2 - 24         | TH / SMT           | varies            | 30 - 18     | Tin / Gold                        | *            |               | *              |
|  | Mini Universal MATE-N-LOK Connectors               | *            | *        | * | * | 9.5                    | 600 VAC                | -55 to +105                      | 4.14                               | 2 - 15         | TH                 | varies            | 30 - 16     | Tin / Gold                        | *            |               | *              |
|  | Power Double Lock Connectors                       | *            | *        | * | * | 14                     | 50 (3.96WTB) - 300 VAC | -30 to +105                      | 3.96, 6.2, 7.95                    | 1 - 12         | TH                 | varies            | 26 - 18     | Tin                               | *            |               | *              |
|  | Economy Power (EP) II Connectors                   | *            | *        | * | * | 10                     | 600 VAC                | -55 to +105                      | 3.96                               | 2 - 12         | TH                 | varies            | 22 - 18     | Tin                               |              |               | *              |
|  | VAL-U-LOK Connectors                               | *            | *        | * | * | 9                      | 600 VAC                | -40 to +105                      | 4.2                                | 2 - 24         | TH                 | varies            | 26 - 16     | Tin                               | *            |               | *              |
|  | Universal Power Connectors                         | *            | *        | * | * | 14                     | 300 VAC                | -30 to +105                      | 3.96, 6.2, 7.95                    | 1 - 18         | TH                 | varies            | 26 - 16     | Tin                               | *            |               | *              |
|  | Power Triple Lock Connectors                       | *            | *        | * | * | 20                     | 600 VAC/VDC            | -55 to +105 / -55 to +150        | 6.0                                | 2 - 15         | TH                 | varies            | 22 - 12     | Tin                               | *            |               | *              |
| Terminals & Splices                        | FASTON Terminals Connectors                        | *            | *        | * | * | 48                     | 600A                   | -40 to +250                      | N/A                                | N/A            | TH                 | N/A               | 26 - 8      | Tin / Nickel                      | *            |               | *              |
|  | Positive Lock Receptacles                          | *            | *        | * | * | 48                     | 600A                   | -40 to +105                      | N/A                                | N/A            | N/A                | N/A               | 24 - 10     | Tin                               | *            |               | *              |
|  | FASTIN FASTON Receptacles                          | *            | *        | * | * | 48                     | 600A                   | -40 to +105                      | N/A                                | 1 - 8          | N/A                | N/A               | 24 - 10     | Tin                               | *            |               | *              |
|  | Ultra-Fast Receptacles                             | *            | *        | * | * | 48                     | 600A                   | -40 to +105                      | N/A                                | N/A            | N/A                | N/A               | 26 - 10     | Tin                               | *            |               | *              |
|  | Open Barrel Rings / Spades                         | *            | *        | * | * | N/A                    | N/A                    | -40 to +250                      | N/A                                | N/A            | N/A                | N/A               | 26 - 6      | Tin / Nickel                      | *            |               | *              |
|  |  |              |          |   |   |                        |                        |                                  |                                    |                |                    |                   |             |                                   |              |               |                |
| Magnet Wire Terminations                   | MAG-MATE Terminals                                 | *            | *        | * | * | varies                 | varies                 | -65 to +150                      | N/A                                | N/A            | N/A                | N/A               | 52 - 12     | Tin                               | *            |               | *              |
|  | AMPLIVAR Splices                                   | *            | *        | * | * | varies                 | varies                 | -65 to +150                      | N/A                                | N/A            | N/A                | N/A               | 24 - 6.5    | Tin / Gold                        | *            |               | *              |
|  | Cluster Block Terminals                            | *            | *        | * | * | varies                 | varies                 | -65 to +150                      | N/A                                | N/A            | N/A                | N/A               | 18 - 12     | N/A                               | *            |               | *              |
|  | Cluster Block Housing                              | *            | *        | * | * | varies                 | varies                 | -65 to +150                      | N/A                                | N/A            | N/A                | N/A               | 18 - 12     | Tin                               | *            |               | *              |
|  | Siameze Terminals                                  | *            | *        | * | * | varies                 | varies                 | -65 to +150                      | N/A                                | N/A            | N/A                | N/A               | 36 - 12     | Tin / Silver                      | *            |               | *              |

# ANTENNAS

| PRODUCT CATEGORY |                                   | APPLICATIONS |           |           |          | Application  | Frequency Band  | Connection Type  | Mounting Style                    | Bands   | Antenna Type                           | Packaging   |
|------------------|-----------------------------------|--------------|-----------|-----------|----------|--|---|--|-----------------------------------|---|--|-------------|
|                  |                                   | Env. Sensing | Equipment | Actuators | Controls |  |   |  |                                   |   |  |             |
| Antennas         | Surface Mount (SMT) Antennas      | •            | •         | •         | •        | Bluetooth   WLAN   ZigBee   Wi-Fi   LTE   ISM   GSM   CDMA 850   GSM 900   GSM 1800   CDMA 1900   UMTS   IoT | 169   700   868   800   850   900   914   1575   1800   1900   2100   2300   2400   2700   5000   2.4GHz   5GHz | SMT  | SMT                               | Single   Dual   Triple   Quad   Penta   Allband | Stamped   PCB   FPC   Chip   Enclosure | Tape & Reel |
|                  | Tab Mount (Through Hole) Antennas | •            | •         | •         | •        | Bluetooth   WLAN   ZigBee   Wi-Fi   LTE   ISM   GSM   CDMA 850   GSM 900   GSM 1800   CDMA 1900   UMTS   IoT | 169   700   868   800   850   900   914   1575   1800   1900   2100   2300   2400   2700   5000   2.4GHz   5GHz | Tab  | Tab                               | Single   Dual   Triple   Quad   Penta   Allband | PCB                                    | Bulk   Tray |
|                  | Cabled Antennas                   | •            | •         | •         | •        | Bluetooth   WLAN   ZigBee   Wi-Fi   LTE   ISM   GSM   CDMA 850   GSM 900   GSM 1800   CDMA 1900   UMTS   IoT | 169   700   868   800   850   900   914   1575   1800   1900   2100   2300   2400   2700   5000   2.4GHz   5GHz | IPEX   MCIS   u.fl   MHF   MHF4   MHF4L   SMA   SMA-RP | Panel   Chassis   Adhesive   Clip | Single   Dual   Triple   Quad   Penta   Allband | Stamped   PCB   FPC   Enclosure        | Bulk   Tray |
|                  | External Antennas                 | •            | •         | •         | •        | Bluetooth   WLAN   ZigBee   Wi-Fi   IoT  | 2400   5000   2.4GHz   5GHz   | IPEX   MCIS   u.fl   MHF   MHF4   MHF4L   SMA   SMA-RP | Chassis   Panel   SMA   SMA-RP    | Single   Dual                                   | Enclosure                              | Bulk        |

# RELAYS

| PRODUCT CATEGORY |                                  | APPLICATIONS |           |           |          | Contact Form | Number of Poles | Current Capability | Terminal Type              | Coil Voltage               | Coil Options                 | Size   | Switching Power Rating     | Endurance (cycles)                    |
|------------------|----------------------------------|--------------|-----------|-----------|----------|--------------|-----------------|--------------------|----------------------------|----------------------------|------------------------------|--|----------------------------|---------------------------------------|
|                  |                                  | Env. Sensing | Equipment | Actuators | Controls |              |                 |                    |                            |                            |                              |  |                            |                                       |
| Low Power PCB    | Power PCB Relay RT1 Inrush Power | •            | •         | •         | •        | A            | 1               | 16A                | THT                        | 5 - 110 VDC                | Mono / Bistable 1 or 2 coils | 29.1 x 12.7 x 15.7 / 16mm + special                    | 4000VA                     | 100K                                  |
|                  | Power PCB Relay RT1 Inrush       | •            | •         | •         | •        | A, C         | 1               | 16A                | THT                        | 5 - 60 VDC                 | Mono / Bistable 1 or 2 coils | 29 x 12.7 x 15.7mm                                     | 4000VA                     | Form A 50K                            |
|                  | RZ AgSnO Power PCB Relay         | •            | •         | •         | •        | A, C         | 1               | 16A                | THT                        | 3 - 48 VDC                 | Monostable                   | 29 x 12.7 x 15.7mm                                     | 4000VA                     | Form A 30K                            |
|                  | RT1 Power PCB Relay              | •            | •         | •         | •        | A, C         | 1               | 12/16A             | THT / THR (DC&AC)          | 5 - 100 VDC / 24 - 230 VAC | Mono / Bistable 1 or 2 coils | 29 x 12.7 x 15.7mm                                     | 3000 / 4000VA              | Form A 30K                            |
|                  | PE Power PCB Relay               | •            | •         | •         | •        | A, C         | 1               | 5A                 | THT                        | 2.2 - 48 VDC               | Mono / Bistable 1 coil       | 20 x 10 x 10   | 1250 VA                    | 100K                                  |
|                  | RYII Power PCB Relay             | •            | •         | •         | •        | A, B, C      | 1               | 8A                 | THT / THR                  | 5 - 60 VDC                 | 230mW Monostable             | 28.5 x 10.1 x 12.3                                     | 2000 VA                    | Form A 100K                           |
|                  | PCJ Miniature PCB Relay          | •            | •         | •         | •        | A            | 1               | 3A/5A (WG)         | THT                        | 5 - 24 VDC                 | 200mW                        | 20 x 4.7 x 15mm  | 750AV / 1250 VA (WG)       | 100K                                  |
|                  | SNR Miniature PCB Relay          | •            | •         | •         | •        | A, C         | 1               | 6A                 | THT                        | 5 - 48 VDC                 | 170mW Monostable             | 28 x 5 x 15mm  | 1500 VA                    | Form AC 5K                            |
|                  | RE Power PCB Relay               | •            | •         | •         | •        | A            | 1               | 6A                 | THT                        | 5 - 48 VDC                 | 2000mW Monostable            | 20 x 10 x 10.6mm                                       | 1500 VA                    | 100K                                  |
|                  | RTX Power PCB Relay              | •            | •         | •         | •        | A            | 1               | 16A                | THT                        | 5 - 48 VDC                 | Bistable 1 or 2 coils        | 29.1x12.7x16mm   | 4000 VA                    | 30K                                   |
|                  | SSR Relay                        | •            | •         | •         | •        | A, 2A, 4A    | 1, 2, 4         | 125A Max.          | Screw / THT / Socket       | N/A                        | N/A                          | varies   | 125A / 660 VAC Max.        | 1,000K                                |
|                  | OJ Miniature PCB Relay           | •            | •         | •         | •        | A            | 1               | 3, 5, 8, 10A       | THT                        | 3 - 48 VDC                 | 450mW, 200mW Mono            | 18.2 x 10.2 x 14.7mm                                   | 720 - 2500 VA / 90 - 240 W | 100K                                  |
|                  | OJE Miniature PCB Relay          | •            | •         | •         | •        | A            | 1               | 3, 5, 8, 10A       | THT                        | 3 - 48 VDC                 | 450mW, 200mW Mono            | 18.2 x 10.2 x 14.7mm                                   | 720 - 2500 VA / 90 - 240 W | 100K                                  |
|                  | OMIH 16 Amp Mini PCB Relay       | •            | •         | •         | •        | A, C         | 1               | 10A/16A            | THT                        | 5 - 48 VDC                 | 540mW (sensitive), 720mW     | 29.2 x 12.8 x 20.6mm                                   | 2500 VA/300W 4000VA/480W   | 100K                                  |
|                  | RF-FASTON Power PCB Relay        | •            | •         | •         | •        | A, B         | 1               | 16A                | THT/QC <sup>2</sup>        | 5 - 60 VDC                 | 400mW                        | 40.5 x 12.7 x 16mm                                     | 4000 VA                    | 100-250K (load dependant)             |
| High Power PCB   | Power Latching Relay EW80        | •            | •         | •         | •        | A            | 1               | 80A                | THT/LUG                    | 5 - 24 VDC                 | Bistable, 1W                 | 36.8 x 17.2 x 30.4mm                                   | 20000 VA                   | 25K                                   |
|                  | Miniature Relay PCF              | •            | •         | •         | •        | A            | 1               | 25A                | THT/QC <sup>2</sup> (#250) | 6 - 24 VDC                 | 900mW, 1W                    | 30.4 x 16 x 26.5mm                                     | 6370 VA                    | 100K                                  |
|                  | T9A 30A Power PCB Relay          | •            | •         | •         | •        | A, B, C      | 1               | 30A                | THT/QC <sup>2</sup>        | 5 - 110 VDC                | 900mW, 1W                    | 32.5 x 27.4 x 20.4mm (THT)                             | 7500 VA                    | 100K                                  |
| Signal Relay     | P2 Relay                         | •            | •         | •         | •        | C            | 2               | 2A                 | THT, SMT                   | 2.4 - 24 VDC               | 70 - 200mW                   | 14.5 x 7.2 x 10.4mm, stand. 14.5 x 7.2 x 9.9mm, overm. | 60W / 62.5 VA              | Mechanical 10 <sub>6</sub> operations |
|                  | IM Relay                         | •            | •         | •         | •        | C            | 2               | 2/5A               | THT, SMT                   | 1.5 - 24 VDC               | 50 - 200mW                   | 10 x 6 x 5.65mm  | 60W / 62.5 VA              | Mechanical 10 <sub>6</sub> operations |

# SWITCHES

| PRODUCT CATEGORY |                                    | APPLICATIONS |           |           |          | Number of Positions | Terminal Style | Actuation Force (gf) | Voltage (DC) | Actuator Length | Current Rating (A) | Packaging          | Size           | Sealed   |
|------------------|------------------------------------|--------------|-----------|-----------|----------|---------------------|----------------|----------------------|--------------|-----------------|--------------------|--------------------|----------------|----------|
|                  |                                    | Env. Sensing | Equipment | Actuators | Controls |                     |                |                      |              |                 |                    |                    |                |          |
|                  |                                    | 1            | 2         | 3         | 4        |                     |                |                      |              |                 |                    |                    |                |          |
| Tactile Switch   | FSM / FSMMST Series Tactile Switch | •            | •         | •         | •        | 1                   | THT   SMT      | 100   160   260      | 24           | 3.4 - 18.6mm    | 0.05               | Tube   Tape & Reel | 6x6mm          | Yes   No |
| DIP Switch       | GDH Series DIP Switch              | •            | •         | •         | •        | 2 - 10              | SMT            | 600                  | 50           | Flush           | 0.1                | Tube   Tape & Reel | 2.54mm spacing | Yes      |
|                  | ADE Series DIP Switch              | •            | •         | •         | •        | 2 - 12              | THT   SMT      | 800                  | 24           | 1mm             | 1                  | Tube   Tape & Reel | 2.54mm spacing | Yes      |
|                  | DIP Shunt                          | •            | •         | •         | •        | 2 - 12              | THT   SMT      | N/A                  | 24           | Flush           | 1                  | Tube   Tape & Reel | 2.54mm spacing | No       |
| Slide Switch     | S / SE Series Slide Switch         | •            | •         | •         | •        | 2 - 3               | THT            | 70 - 500             | 48           | 2.8mm           | 0.05               | Tray               | 9.5mm          | Yes      |
|                  | MLL Series Slide Switch            | •            | •         | •         | •        | 2 - 3               | SMT            | 175                  | 20           | 1.5mm           | 0.3                | Tube   Tape & Reel | 9.7mm          | No       |

# PASSIVES

| PRODUCT CATEGORY         |  | APPLICATIONS |           |           |          | Size        | Inductance   Impedance   Resistance | Tolerance                | Current Rating   DCR   TCR     | Packaging   | Power Rating |
|--------------------------|--|--------------|-----------|-----------|----------|-------------|-------------------------------------|--------------------------|--------------------------------|-------------|--------------|
|                          |  | Env. Sensing | Equipment | Actuators | Controls |             |                                     |                          |                                |             |              |
|                          |  | 1            | 2         | 3         | 4        |             |                                     |                          |                                |             |              |
| High Frequency Indicator | Thin Film - 3640 Inductor                  | •            | •         | •         | •        | 0201 - 0402 | INDUCTANCE<br>0.1nH - 33nH          | 0.1-0.3nH / 1 - 5%       | CURRENT RATING<br>75mA - 800mA | Tape & Reel | --           |
|                          | Wirewound - 3650 Inductor                  | •            | •         | •         | •        | 0402 - 1008 | 1.0nH - 15,000nH                    | 0.2nH - 0.5nH / 2% - 10% | 100mA - 2300mA                 | Tape & Reel | --           |
|                          | Multilayer - 3671 Inductor                 | •            | •         | •         | •        | 0201 - 0805 | 1.0nH - 470nH                       | 0.3nH, 5%, 10%           | 50mA - 1000mA                  | Tape & Reel | --           |
| Ferrite Chip Beads       | Multilayer Ferrite Beads - Type BMB Series | •            | •         | •         | •        | 0402 - 1206 | IMPEDENCE<br>10Ω - 2700Ω            | 25%                      | DCR<br>0.01 - 1.50             | Tape & Reel | --           |
| Power Chip Resistor      | Thick Film Resistor - 3520 Series          | •            | •         | •         | •        | 2512        | RESISTANCE<br>1R0 - 1M0             | 5%                       | TCR<br>350PPM, 200PPM          | Tape & Reel | 1W           |
|                          | Thick Film Resistor - 3521 Series          | •            | •         | •         | •        | 2512        | 1R0 - 1M0                           | 1%                       | 100PPM, 200PPM                 | Tape & Reel | 2W           |
|                          | Thick Film Resistor - 3522 Series          | •            | •         | •         | •        | 2512        | 10R - 10M                           | 1% 5%                    | 100PPM, 200PPM                 | Tape & Reel | 3W           |

# SENSORS

| PRODUCT CATEGORY                  |   | APPLICATIONS |           |           |          | Accuracy | Range                          | Operating Temperature Range | Stability   | Time Response | SMD         | Pressure Type | Output Type |
|-----------------------------------|---|--------------|-----------|-----------|----------|----------|--------------------------------|-----------------------------|-------------|---------------|-------------|---------------|-------------|
|                                   |   | Env. Sensing | Equipment | Actuators | Controls |          |                                |                             |             |               |             |               |             |
|                                   |   | 1            | 2         | 3         | 4        |          |                                |                             |             |               |             |               |             |
| <b>TEMPERATURE</b>                |   |              |           |           |          |          |                                |                             |             |               |             |               |             |
| NTC Thermistor                    | Leadless Chip, 44000 Series, DO-35, Packaged Probe Sensors    | •            | •         | •         | •        | ±1.0°C   | -40 to +250°C                  | -40 to +250°C               | 1 to 10 Sec | •             | N/A         | N/A           | R           |
| RTD Temperature Sensor            | Wirewound - 3650, Thickfilm - 12552, Packaged Probe Sensors   | •            | •         | •         | •        | ±0.2°C   | -40 to +800°C                  | -40 to +800°C               | 1 to 10 Sec | •             | N/A         | N/A           | R           |
| Thermocouple                      | 202-M Plug & Play, 600 Series Micro, 211 Series Probe Sensors | •            | •         | •         | •        | ±2.0°C   | -40 to +1800°C                 | -40 to +1800°C              | 1 to 10 Sec | •             | N/A         | N/A           | V           |
| Non-contact Thermopile            | TS105/318 Component, TSEV Series Module Sensors               | •            | •         | •         | •        | ±3.0°C   | -40 to +2000°C                 | -40 to +2000°C              | 5 mSec      | •             | N/A         | N/A           | V           |
| Digital Temperature Sensor        | TSYS01, TSYS02 Sensors  | •            | •         | •         | •        | ±1.0°C   | -40 to +125°C                  | -40 to +125°C               | 1 to 10 Sec | •             | N/A         | N/A           | D           |
| <b>HUMIDITY</b>                   |   |              |           |           |          |          |                                |                             |             |               |             |               |             |
| Humidity Component   Module       | HS1101LF Sensors  | •            | •         | •         | •        | ±3%      | 0 to 100%                      | -60 to +140°C               | 10 Sec      | •             | ±0.5% RH/yr | N/A           | C           |
| Digital Humidity Sensor           | HTU21x Series Sensors   | •            | •         | •         | •        | ±3%      | 0 to 100%                      | -40 to +125°C               | 10 Sec      | •             | ±0.5% RH/yr | N/A           | D           |
| <b>PRESSURE</b>                   |   |              |           |           |          |          |                                |                             |             |               |             |               |             |
| Board Level Pressure              | MS45x5, MS5525DSO, MS5637, MS5611, MS5803 Sensors             | •            | •         | •         | •        | ±2%      | 0.07 to 300psi                 | -40 to +125°C               | 1 mSec      | •             | ±1%FS/yr    | G, A, D, C, V | R, A, D     |
| Transducer   Transmitter          | MS200, US300, US300, MSP300 Sensors                           | •            | •         | •         | •        | ±1%      | 50 to 30,000psi                | -40 to +125°C               | 1 mSec      | •             | ±1%FS/yr    | G, D          | R, A, D     |
| Pressure Capsule                  | Model 82, 85, 86, 89, 154 Sensors                             | •            | •         | •         | •        | ±1%      | 1 to 300psi                    | -40 to +125°C               | 1 mSec      | •             | ±1%FS/yr    | G, A, S, V    | M, R, V, D  |
| <b>POSITION</b>                   |   |              |           |           |          |          |                                |                             |             |               |             |               |             |
| Magneto Resistive Sensor          | MS32, KMT32, KMA36 Linear and Rotary Sensors                  | •            | •         | •         | •        | ±0.3°C   | 0 to +360°                     | -40 to +150°C               | 1 mSec      | •             | N/A         | N/A           | M, V, D     |
| Liquid Level Sensor               | LS, VS, OS Series Sensors                                     | •            | •         | •         | •        | ±3%      | Binary On   Off                | -30 to +130°C               | Instant     | •             | Infinite    | N/A           | S           |
| Proximity Switch                  | PS1, PS2, PS4, PSS Series Sensors                             | •            | •         | •         | •        | ±2%      | Binary On   Off                | -30 to +130°C               | Instant     | •             | Infinite    | N/A           | S           |
| <b>VIBRATION</b>                  |   |              |           |           |          |          |                                |                             |             |               |             |               |             |
| Piezoelectric Film                | M-100 Minisense Vibration Sensors                             | •            | •         | •         | •        | ±10%     | 0 to 40 Hz                     | -40 to +60°C                | 100 mSec    | •             | ±1%/yr      | N/A           | V           |
| <b>COMBINATION</b>                |   |              |           |           |          |          |                                |                             |             |               |             |               |             |
| Pressure   Temperature   Humidity | MS8607 Sensors  | •            | •         | •         | •        | ±1%      | 10 to 2000mBar<br>0 to 100% RH | -40 to +85°C                | 1 Sec       | •             | N/A         | A             | D           |
| <b>FORCE</b>                      |   |              |           |           |          |          |                                |                             |             |               |             |               |             |
| Load Cell                         | FX1901, FS20, FC22, FC23 Sensors                              | •            | •         | •         | •        | ±2%      | 2.0 to 2000lbf                 | -40 to +85°C                | 1 mSec      | •             | ±1%/yr      | N/A           | M, A, D     |
| <b>FLOW</b>                       |   |              |           |           |          |          |                                |                             |             |               |             |               |             |
| Reed Switch and Magnet            | FS, FCS Series Sensors  | •            | •         | •         | •        | ±3%      | Binary On / Off                | -30 to +130°C               | Instant     | •             | Infinite    | N/A           | S           |

## te.com

AXICOM, Potter & Brumfield, MEAS, ALCO, Power Triple Lock, AMP, AMP-LATCH, AMPMODU, MATE-N-LOK, VAL-N-LOK, FASTIN-FASTON, FASTON, MAG-MATE, AMPLIVAR, SIAMEZE, TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2016 TE Connectivity Ltd. family of companies All Rights Reserved.

02/16 Original