

knitter-switch

- > Encoders
- > Tact Switches
- > Slide Switches
- > Rotary Switches
- > Toggle Switches
- > Pushbutton Switches
- NEW** > Industrial Control Switches
- NEW** > Capacitive Touch
- > Detector Switches
- > Dual-in-line Switches
- > Rotary Coded Switches
- > Micro Switches
- > Membrane Keypads
- > Rubber Keypads
- > Steel Keyboards
- NEW** > Touch Panels



Product Profile **2019**

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Toogle Switches



Miniature toggle switches

Standard series: MTA, MTE, MTG,
MTL, MTW, MZME, STM

Mounting options available:

- > Solder lugs
- > Right angle mounting
- > PC terminals



Features:

- > Waterproof versions available
- > Washable versions available
- > ESD proof series available
- > Special levers available:
short, flat, locking, mustang
- > Special versions on request



Typical applications:

- > Industrial equipment
- > Medical products
- > Telecommunications
- > Aeronautics
- > Farm machinery
- > Musical instruments



Toogle Switches

Subminiature and Microminiature toggle switches

Standard series:
ATE, SST, TST, FT

Mounting options available:

- > Right angle mounting
- > Vertical mounting
- > PC terminals
- > SMD

Features:

- > Waterproof
- > Washable
- > ESD proof series available
- > Special versions on request

Typical applications:

- > Measurement
- > Industrial controls
- > Medical products
- > Telecommunications
- > Consumer Products



Pushbutton Switches

Miniature pushbutton switches



Standard series: MPBS, MPSA,
MPA, MPE, MPG, MPS, MSP

Mounting options available:

- > Solder lugs
- > Right angle mounting
- > PC terminals



Features:

- > Waterproof versions available
- > ESD proof series available
- > Special levers: heavy duty, snap action
- > Accessories: buttons, caps, nuts, covers
- > Special versions on request



Typical applications:

- > Measurement
- > Industrial equipment
- > Medical products
- > Telecommunications
- > Home entertainment
- > Farm machinery
- > Studio and stage equipment



Pushbutton Switches

Subminiature and Microminiature pushbutton switches

Standard series:

APE, MZP, SSP, TSP, FP, SSP

Mounting options available:

- > Solder lugs
- > Right angle mounting
- > Vertical mounting
- > PC terminals
- > SMD

Features:

- > Washable versions available
- > ESD proof series available
- > Special versions on request

Typical applications:

- > Measurement
- > Industrial controls
- > Medical products
- > Telecommunications



Pushbutton Switches

Tactile and illuminated pushbutton switches



Standard series: DPL, DPW, DPWL, LP, MAV, MPLS, TSSL

Mounting options available:

- > Solder lugs
- > PC terminals, SMD
- > Front panel mounting



Features:

- > Waterproof and washable series
- > Momentary and latching versions
- > Versions with 1 – 4 LEDs available
- > Various LED colours available
- > Rubber contact for silent actuation
- > Big range of caps and bezels
- > Electromechanical switches
- > Special versions on request



Typical applications:

- > Switch boards, Audio equipment
- > Telecommunications
- > Human machine interfaces (HMI)
- > Vending machines, ticket dispensers



Pushbutton Switches

Anti-Vandal pushbutton switches

Standard series: MAV

Features:

- > Water and vandal-proof
- > Standard bushing diameters 12 to 25 mm
- > Illumination options incl. RGB
- > Brass/stainless steel, incl. black and gold-plated case surfaces

Typical applications:

- > Outdoor application



Capacitive pushbutton switches

Standard Series: CTK

NEW

Features:

- > Touch sensitive, zero operation force
- > No movable parts
- > Water and vandal-proof
- > Bushing diameters 12 to 25 mm
- > Illumination options incl. RGB

Typical applications:

- > Vending machines
- > Alarm or call buttons



Tact Switches

Tact switches



Standard series: TME, TMP, TMS, TMSE, TS, TSS, TSSE, TSE



Mounting options available:

- > Right angle
- > THD
- > SMD
- > SMD J-Hooks



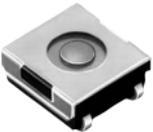
Features:

- > Waterproof and washable
- > Industrial contact rating available
- > Various accessories: buttons, caps
- > Ultra flat series available
- > Special versions on request



Typical applications:

- > Consumer electronics
- > Automotive
- > White goods
- > Telecommunications
- > Industrial equipment
- > Home automation



Tact Switches

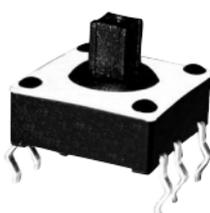
Multi-function switches

Standard series:
PLSJ, TSJ, TSSJ



Mounting options available:

- > THD
- > SMD
- > SMD J-Hooks



Features:

- > Mini joysticks (7 x 7mm)
- > Rugged joysticks
- > Ultra flat series
- > Side operated version
- > Special versions on request



Typical applications:

- > Consumer electronics
- > Automotive
- > Telecommunications
- > Industrial equipment
- > Home automation
- > Measurement



Slide Switches

Miniature slide switches



Standard series:
ASE, MFP, MFS, MSS

Mounting options available:

- > Solder lugs
- > PC terminals
- > Right angle mounting



Features:

- > Washable series available
- > Low cost series available
- > Shorting and non-shorting versions
- > Special versions on request



Typical applications:

- > Consumer electronics
- > Industrial controls
- > Telecommunications
- > Home automation
- > Professional audio equipment



Slide Switches

Microminiature slide switches



Standard series:
MMP, MMS

Mounting options available:

- > THD
- > SMD
- > Right angle mounting



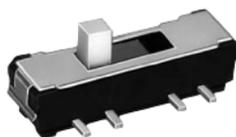
Features:

- > Low cost series available
- > Additional pushbutton function available
- > Tape and reel packing available
- > Special versions on request



Typical applications:

- > Consumer electronics
- > Industrial controls
- > Telecommunications
- > Medical products
- > Home appliances



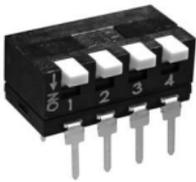
Dual-in-line Switches

Professional and low cost dual-in-line switches



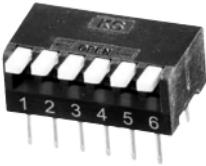
Standard series:

DBS, DBP, DHS, SBS, SBP, DHS, DHP, DSS, SBP, SMS



Mounting options available:

- > PC terminals
- > SMD
- > SMD half-pitch



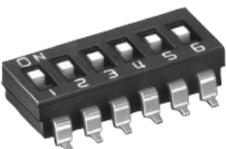
Features:

- > End-stackable versions available
- > Piano types
- > Gold-plated or tin-plated versions available
- > Special versions on request



Typical applications:

- > Consumer products
- > Home automation
- > Medical products
- > Telecommunications
- > Measurement
- > Industrial automation



Micro / Snap Action Switches

Micro / Snap action switches

Standard series:
DM, TMV



Mounting options available:

- > PC terminals
- > Front panel mounting



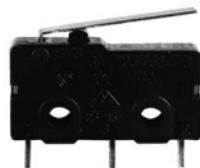
Features:

- > VDE and UL approvals
- > Waterproof versions available
- > Subminiature and microminiature switches available
- > Special versions on request



Typical applications:

- > Applications requiring BSI safety approval
- > Elevator controls
- > Application settings
- > Tooling machines



Rotary Switches

Miniature rotary switches



Standard series:

MR, MRK, MRS, SMR

Mounting options available:

- > PC terminals
- > Solder lugs
- > Front panel mounting
- > SMD

Features:

- > Waterproof versions available
- > Various switching functions (1-4 poles, 1-12 positions)
- > Key switches available
- > Microminiature switch available
- > Special versions on request



Typical applications:

- > White goods
- > Medical products
- > Industrial automation
- > Telecommunications
- > Measurement



Rotary Coded Switches

Rotary Coded switches

Standard series:

DRR, DRS, SMR, SMRR



Mounting options available:

- > THD
- > Right angle mounting
- > Front panel mounting
- > SMD



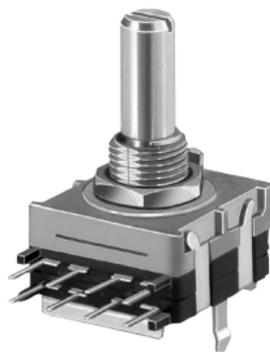
Features:

- > 2 pinning versions available (3:3, 4:1)
- > Flat types available
- > Different sizes available (10 x 10, 7 x 7)
- > 4 codings available
- > Various caps available
- > Special versions on request



Typical applications:

- > Home appliances
- > Industrial automation
- > Telecommunications
- > Measurement



Encoders

Encoders



Standard series:
MER, MERP, MRP, MEOP

Mounting options available:

- > PC terminals
- > Right angle mounting
- > SMD



Features:

- > Various shafts and heights available
- > Additional push function available
- > Illuminated switches available
- > Special versions on request
- > Optical encoder



Typical applications:

- > Home automation
- > Medical products
- > Automotive
- > Measurement



Industrial Control Switches

NEW

Industrial Control Switches

Standard Series:
ICE



Features:

- > Full program
- > Oil-resistant, IP65 waterproof
- > Emergency switches with positive break
- > Modular design
- > Compliant to common standards



Typical applications:

- > Industrial Control
- > Agricultural vehicles
- > Medical devices
- > Drinks/food dispensers



Detector Switches

Detector switches



Mounting options available:

- > THD
- > SMD
- > SMD J-hooks



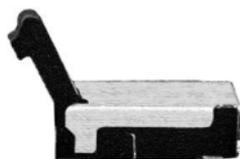
Features:

- > Normally open, normally closed or changeover (SPDT)
- > Top- or side-operated
- > Uni- or bidirectional action
- > Optionally gold-plated contacts



Typical applications:

- > Consumer electronics
- > Home automation
- > Smart metering
- > Computer products



Membrane Keypads Rubber Keypads

Membrane keypads

Individual design

Features:

- > Graphic overlay only
or full switching membrane
- > Metal or polydome contacts
- > Tactile or non-tactile feel
- > Integral SMD LEDs
- > LCD windows
- > ESD/RFI shielding
- > Insertable legend options



Rubber keypads

Individual design

Features:

- > Backlighting options
- > Various coatings eg epoxy, polyurethane
- > Harder rubber options to give
“plastic” feel
- > Various travel/ operating force options
- > Combination with tactile switches
- > Wide variation of colours and designs
- > Plastic key tops available



Steel Keyboards Touch Panels

Steel keyboards

Individual design



Features:

- > 3 different lines
- > Upt to IP 69K
- > Soft touch keys

Capacitive Touch Panels

NEW

Individual design

Features:

- > Customized size
- > Multi-touch
- > Ruggedized design, e. g. by Gorilla-glass
- > Design options like anti-glare, hard coating on film, glove support
- > Interfaces like I²C, USB, SPI

Distributors

Pan-European

Arrow Europe

Avnet Abacus

Rutronik

Local

ACTE A/S (Denmark)

Anglia (United Kingdom)

Burisch Elektronik Bauelemente (Austria)

Endrich Bauelemente (Germany)

Foremost Electronics Ltd (United Kingdom)

MS Composants (France)

Multi-Bauelemente-Service (Germany)

Palladium Electronique (France)

Technolasa (Italy)

Werner GmbH (Germany)

WCE-electronics (Spain)

South Africa: Actum Electronics

USA: JL Optimus INC (Saint Charles, IL)

Asia

Arrow Asia PAC (Hong Kong)

Chuo & Co., Ltd (Japan)

GSK Electronics Pte Ltd (Singapore)

MegaOne Technology Pte Ltd (Singapore)

Pioneer Electronics Co., Ltd (China)

Rutronik (Hong Kong)

SK Electronics Co, Ltd (Japan)

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Conrad Electronics

Distrelec

Farnell

RS Components

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