



PRODUCT OVERVIEW



B-COMMAND[®]
PREMIUM ENGINEERING

TABLE OF CONTENT

4	PENDANT CONTROL STATION <ul style="list-style-type: none">> Lady> Stilo> Direct> Kappa> Special Solutions
9	JOYSTICK / JOYSTICK STATION <ul style="list-style-type: none">> Joystick MC / MW> Joystick Station Compact
10	RADIO REMOTE CONTROL <ul style="list-style-type: none">> Jump> JoySys / JoyPlus
12	CROSS LIMIT SWITCH <ul style="list-style-type: none">> Lambda> Alpha
13	EMERGENCY-STOP BUTTON <ul style="list-style-type: none">> Safety-Line
14	ENABLING SWITCH <ul style="list-style-type: none">> Accept-A Panel Mounted> Accept-B Grip Housing> Accept-C Safety Handle Bar
16	FOOT SWITCH <ul style="list-style-type: none">> Gamma> Delta
18	MAIN-SWITCH / ON-LOAD-SWITCH <ul style="list-style-type: none">> Eco-Line> Premium-Line
20	DC-CONTACTOR <ul style="list-style-type: none">> Tecno 4> Tecno 6> Logo TL10> Team

- 21** **DC-CONNECTOR**
 - > Europe
 - > Europe Air-Tech

- 22** **ROTARY LIMIT SWITCH**
 - > FRS
 - > FCN
 - > FRM
 - > primeCAM

- 26** **ENCODER**

- 27** **ACCELERATION SENSOR**

- 27** **PINION GEAR**

- 28** **SLIPRING**
 - > PRS
 - > PRP
 - > PMS
 - > Roller
 - > PME
 - > EXD
 - > KOMBI-PMS
 - > PRM
 - > PMP
 - > PRG
 - > PSG

- 30** **ROTARX MINIATURE SLIPRING**
 - > Capsuled
 - > Super Miniature
 - > Hollow Shaft
 - > Pancake
 - > Fibre Optical
 - > COAX
 - > USB
 - > HDMI
 - > Without Housing
 - > Windpower Slipring

CONVEYOR AND HOIST TECHNOLOGY

PENDANT CONTROL STATION

CONTROL STATIONS FOR AUXILIARY CIRCUIT APPLICATIONS

SERIES LADY

Different Housing Sizes, Single-Row, 2-12 Buttons



Protection Degree: IP65



Operating Temperature:
-25°C...+70°C



Auxiliary / Control Circuit



Modular:
maximum 12 Buttons,
Individual Button Configuration



Mechanical Interlock of Buttons



2 Speed Levels,
Display,
Selector Switch,
Key Selector Switch,
Potentiometer,
Signal Lamp,
Labeling,
Luminous Push-button etc.



CUSTOMER-SPECIFIC REQUIREMENTS

- Pre-Wiring
- Connectors
- Enabling Switches etc.



SERIES STILO

Different Housing Sizes, Double-Row, 4-14 Buttons



Protection Degree: IP65



Operating Temperature:
-25°C...+70°C



Auxiliary / Control Circuit



Modular:
maximum 14 Buttons,
Individual Button Configuration



Mechanical Interlock of Buttons



2 Speed Levels Fast / Slow

CONVEYOR AND HOIST TECHNOLOGY

PENDANT CONTROL STATION

CONTROL STATIONS FOR AUXILIARY CIRCUIT APPLICATIONS

SERIES DIRECT

Main Circuit, Single-Row, 3 Buttons



Protection Degree: IP65



Operating Temperature:
-25°C...+70°C



Main Circuit, Direct Control



Mechanical Interlock of Buttons



Optimized Inner Space
for comfortable Wiring



max. 3kW Direct Control



2 Speed Levels Fast / Slow





SERIES KAPPA

Different Housing Sizes, Single-Row, 1-2Ø Buttons

IP65

Protection Degree: IP65



Operating Temperature:
-25°C...+70°C



Auxiliary / Control Circuit



Modular:
maximum 2Ø Buttons,
Individual Button Configuration



Display,
Selector Switch,
Key Selector Switch,
Potentiometer,
Signal Lamp,
Labeling,
Luminous Push-button,
Enabling Switch etc.



CUSTOMER-SPECIFIC REQUIREMENTS

- Labeling / Engraving

CONVEYOR AND HOIST TECHNOLOGY

PENDANT CONTROL STATION

CONTROL STATIONS FOR AUXILIARY CIRCUIT APPLICATIONS

SPECIAL SOLUTIONS PENDANT STATIONS

Special Enclosures, Special Buttons, Wiring



DISPLAY AND ILLUMINATED BUTTONS



SPECIAL BUTTONS



+

- Display,
- Selector Switch,
- Key Selector Switch,
- Potentiometer,
- Signal Lamp,
- Special Labeling / Engraving,
- Illuminated Pushbuttons,
- Pre-Wiring,
- Connectors,
- Enabling Switches (3-Steps),
- Individual Button Configuration,
- Special Plastic / Metal Housing

ENGRAVING / LABELING



HOUSING IP69K



PLASTIC HOUSING



STAINLESS STEEL HOUSING

JOSTICK / JOYSTICK STATION

HEAVY-DUTY ENVIRONMENTS

JOYSTICK SERIES MC/MW

1 or 2 Axis, Hand-Grip, Potentiometer



MC / MW



JOYSTICK STATION COMPACT

1 or 2 Joysticks, max. 5 Buttons, Carrying Strap



Protection Degree: IP 65



Operating Temperature:
-25°C...+60°C



Auxiliary / Control Circuit



Modular Design,
Individual Button Configuration



Max. 4 Speed Levels,
Hand Grip,
Potentiometer,
Labeling,
Pre-Wiring and Connectors



CUSTOMIZED LAYOUTS

CONVEYOR AND HOIST TECHNOLOGY

RADIO REMOTE CONTROL

CONTROL UNIT FOR RADIO REMOTE APPLICATIONS



SERIES JUMP

Different Housing Sizes, Double-Row

PACKAGE CONTAINS

- Battery Charger
- 2 x Rechargeable Batteries
- Carrying Strap
- Documentation
- Sticker Set for Labeling



Protection Degree: IP65



Operating Temperature:
-10°C...+55°C



Auxiliary / Control Circuit
Frequency 433,05-434,790MHz



Modular:
6, 9 or 13 Function Keys
+ Emergency-Stop-Button + Start-Button



Range: 80m
Number of Channels: 33
Contact Rating Relais: max. 3A



Display,
lateral Push-Button,
Selector Switch,
Key Selector Switch,
Enabling Switch,
Potentiometer,
maintained Switching Function,
Labeling,
Data-Feedback,
Master-Slave,
Take-Release



RECEIVER

- for Cabinet Mounting
OR
- with Housing for Outdoor Use





SERIES JOYSYS / JOYPLUS

Radio Remote Control with Joystick and Display

IP65

Protection Degree: IP65



Operating Temperature
-10°C...+55°C



Auxiliary / Control Circuit
Frequency 433,05-434,790MHz



Modular:
max. 2 Joysticks + 5 Buttons,
Individual Button Configuration



Range: 80m
Number of Channels: 33
Contact Rating Relais: max. 3A



Display,
lateral Push-Button,
Selector Switch,
Key Selector Switch,
Enabling Switch,
Potentiometer,
maintained Switching Function,
Labeling,
Data-Feedback,
Master-Slave,
Take-Release



☆ n-JOY ☆
433.900 ch34



CRANE TECHNOLOGY

CROSS LIMIT SWITCH

SAFE LIMITATION OF CRANE AND HOIST TRAVEL

SERIES LAMBDA

Small Overall Dimensions, 2-4 Contacts



Protection Degree: IP65



Operating Temperature:
-20°C...+70°C



max. Performance Level D,
NO/NC Contacts Galvanically Isolated



Heavy-Duty Zinc-Die-Cast Housing



Several Switching Configurations,
Pre-Wired,
incl. Cable Glands,
Connectors

SERIES ALPHA

Optimized Space for Wiring, 2-4 Contacts



Protection Degree: IP65



Operating Temperature:
-20°C...+70°C



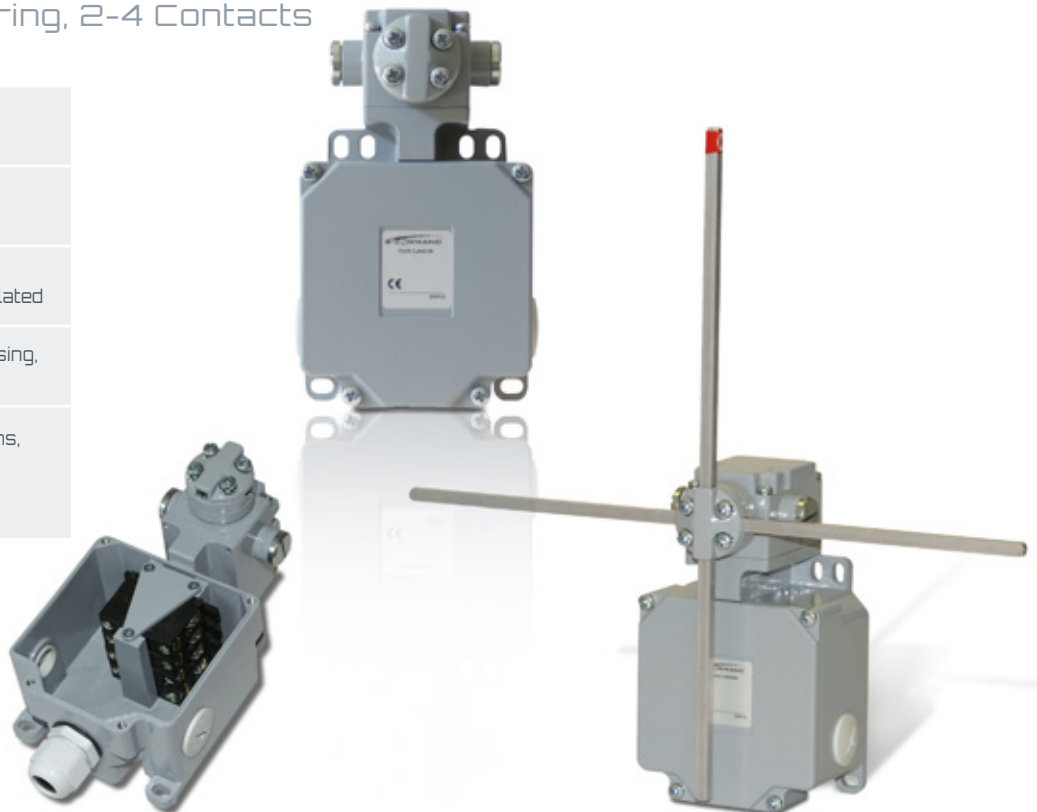
max. Performance Level D,
NO/NC Contacts Galvanically Isolated



Heavy-Duty Zinc-Die-Cast Housing,
Several Mounting Options



Several Switching Configurations,
Pre-Wired,
incl. Cable Glands,
Connectors



INDUSTRY

EMERGENCY-STOP BUTTON

SECURE SHUTDOWN OF MACHINERY

SERIES SAFETY-LINE

Wide Range of Products



Protection Degree: IP65



Operating Temperature:
-30°C...+85°C



Modular:
Different Contacts,
Self-Monitoring Safety-Contacts



Protective Shroud,
Illumination,
Lockable,
Hygiene Areas,
Tamper Proof,
Red or Black Mushroom Button



MECHANICAL ENGINEERING / ROBOT TECHNOLOGY













ENABLING SWITCH

PERSONAL SAFETY FOR MAN-MACHINE SYSTEMS

SERIES ACCEPT A

Small Overall Dimensions, Panel Mounted Version



 IP65	Protection Degree: IP65
	Operating Temperature: -20°C...+60°C
	Auxiliary / Control Circuit
	Function 1-2-3 Contacts do not close at Reset (Stage 3 - Stage 1)
 0 x 2	Redundant Switch approved for Safety Category 4 (acc. to IEC 60947-5-8)
     	
	Silicone Free, Auxiliary Contacts





SERIES ACCEPT B

Ideal for Danger Zones, Ergonomic Hand Grip, Compact Dimensions



IP66
IP67

Protection Degree: IP66 / IP67



Operating Temperature:
-25°C...+60°C



Function 1-2-3
Contacts do not close at Reset
(Stage 3 - Stage 1)



Redundant Switch approved for
Safety Category 4
(acc. to IEC 60947-5-8)



Emergency-Stop-Button,
Signal Lamp,
Push-Button,
Key Selector Switch,
Mounting Bracket

SERIES ACCEPT C

Safety Handle Bar





INDUSTRIAL CONTROL TECHNOLOGY

FOOT SWITCH

HANDS-FREE OPERATION OF INDUSTRIAL MACHINERY

MINIATURE FOOT SWITCHES SERIES GAMMA

For Simple Commercial or Industrial Environments



Operating Temperature:
-10°C...+70°C

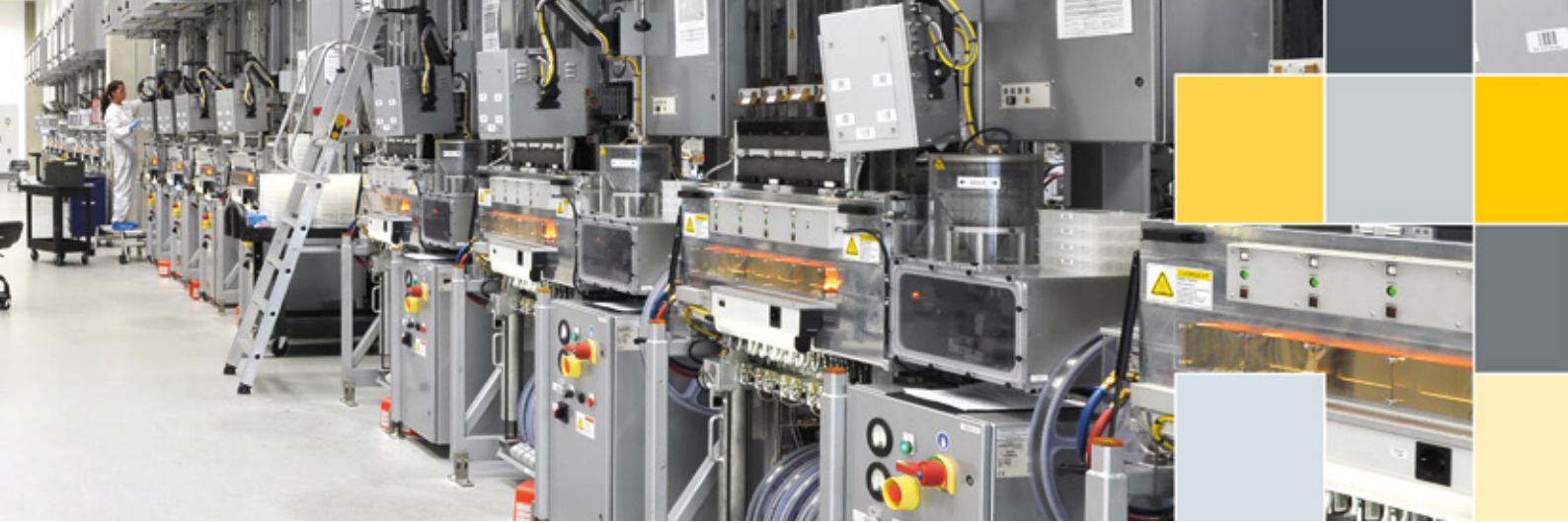


Antislip Rubber Feet



Changeover Contact (1NO / 1NC)





SERIES DELTA

Heavy-Duty Foot Switches, Modular Construction, Potentiometer



IP65

Protection Degree: IP65



Operating Temperature:
-10°C...+70°C



Material Protection:
Cover Plastic or Aluminium



Colours:
Red, Yellow or Grey



Pedal with Safety Lever,
Pedal-Lock,
2 Speed Control,
Emergency-Stop-Button

INDUSTRIAL CONTROL TECHNOLOGY

MAIN SWITCH / ON-LOAD-SWITCH

SECURE SHUTDOWN OF INDUSTRIAL MACHINERY

SERIES ECO-LINE

Economic Solution for Switch-Off



Protection Degree: IP65



Operating Temperature:
-25°C...+70°C



10A - 100A



Mounting Forms:
Panel Mounted
(4-Hole-Frontside Mounting),
Enclosure Version
3 or 4 Poles



Lockable:
Use of 3 Padlocks

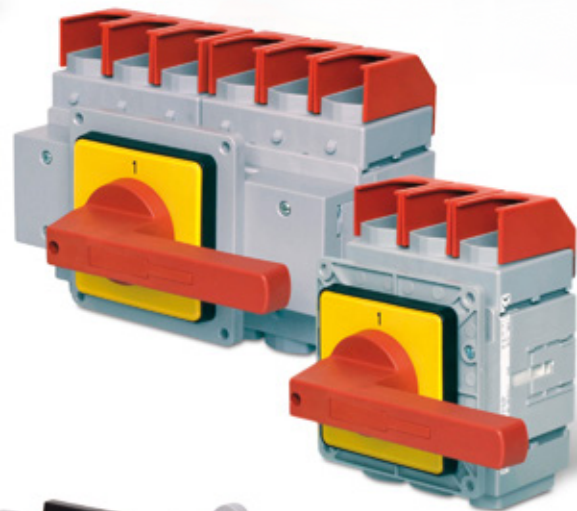
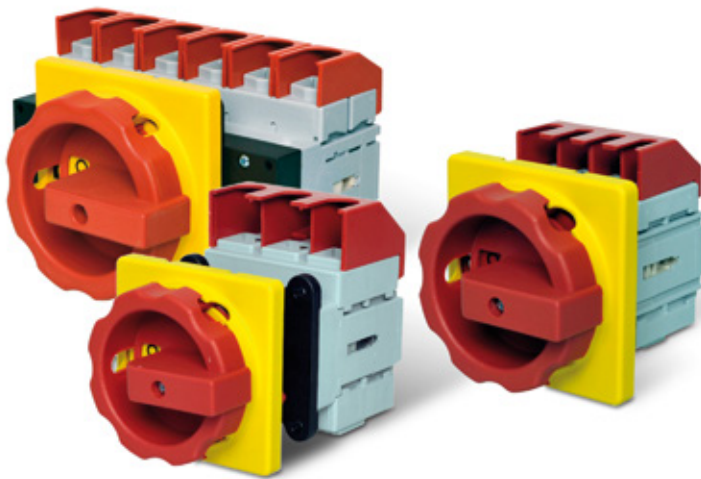


Additional Auxiliary Contacts,
Plastic Cable Glands



SERIES PREMIUM-LINE

3 up to 8 Poles for Highest Requirements



Protection Degree: IP65



Operating Temperature:
-20°C...+50°C



16A - 400A



Mounting Forms:
4-Hole-Frontside-Mounting,
Central Mounting,
Base Mounting,
DIN-Mounting,
Enclosure Version



VDE 0660 EC 60344 KEWA UL SR



Lockable:
Use of 3 Padlocks



Undervoltage Circuit Breaker,
Load Transfer Switch,
Auxiliary Contacts,
Red or Black Actuator,
Label,
Cable Gland

CONTROL OF BATTERY POWERED VEHICLES

DC-CONTACTOR

FORKLIFT-TRUCKS, CLEANING MACHINES,
BOATS AND SHIPS, VEHICLE TECHNOLOGY



SERIES LOGO, TECNO, TEAM

Direct Current Contactors and Motor Reverser



Operating Temperature:
-20°C...+50°C



Disconnection Time: <10ms



High Power with Compact Size



100A / 120A / 150A / 180A



Protection against Oil, Water, Dust



Magnetic Blowout,
Permanent Duty,
Dust Protection,
Auxiliary Contacts,
Larger Terminals



BATTERY CHARGING CONNECTORS FOR DIRECT CURRENT INDUSTRY

DC-CONNECTOR

INDUSTRIAL TRUCKS, FORK LIFT TRUCKS, VEHICLE BATTERIES,
BATTERY-CHARGER, UNINTERRUPTED POWER SUPPLY UNITS

SERIE EUROPE, AIR-TECH, AMERICA



Operating Temperature:
-20°C...+90°C



80A / 160A / 320A



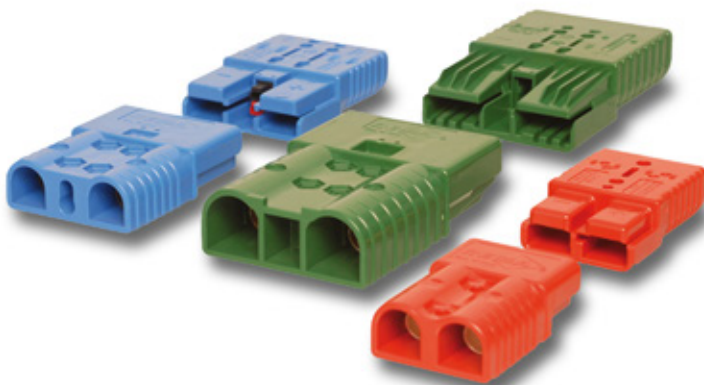
Series Air-Tech:
Air Leadthrough,
Reduce Charging Time,
Positive Influence on Capacity of Battery,
Increase Lifetime



Contacts made of
99,9% Electrolytic Copper



Acid- and Heat-Resistant. Acc. To
EN1175-1, DIN 43589, FEM4007a,
FEM4007b



CODING PIN

- Green = Dry-Cell Battery
- Grey = Wet Battery
- Yellow = Universal



AUXILIARY CONTACTS



STAGE TECHNOLOGY, CONVEYOR AND HOIST TECHNOLOGY

ROTARY LIMIT SWITCH

SECURE SWITCH-OFF OF MACHINERY MOVEMENT

SERIES FRS

Compact Rotary Limit Switch, 2-4 Contacts



Protection Degree: IP65



Operating Temperature:
-25°C...+80°C



Modular:
Contacts,
Cams,
Incremental or Absolute Encoder



Material Housing:
Fibre-Reinforced Thermoplast
Material Shaft: Stainless Steel



Contacts:
1NO / 1NC
(Changeover, Forced Opening)



Flexible Shaft,
Male Coupling,
Potentiometer,
Encoder,
Black Cover,
Pinion Gear,
Different Cam,
Flange,
Special Shaft,
Cable,
Connector,
Adapter Plate etc.





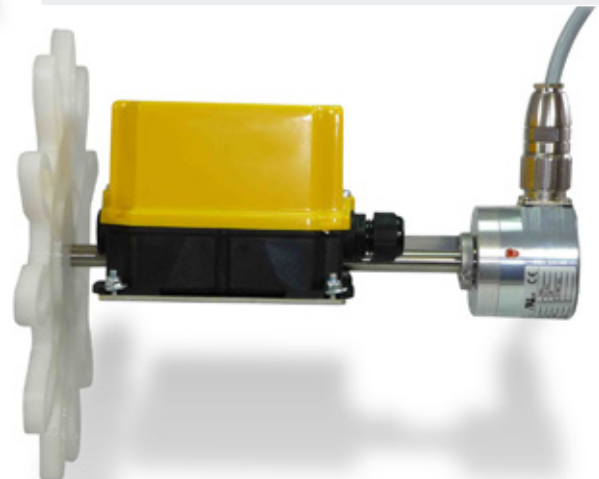


SERIES FCN

Movement Control of Industrial Machinery, 2-5 Contacts



-  Protection Degree: IP65
-  Operating Temperature: -40°C...+80°C
-  Modular: Contacts, Cams, Incremental or Absolute Encoder
-  Material Housing: Fibre-Reinforced Thermoplast
Material Shaft: Stainless Steel
-  Contacts:
 1NO/1NC Snap Action Switch (R)
 1NC Slow Action Switch (P)
 2NC Slow Action Switch stepped (M)
 1NO/1NC Slow Action Switch (Type MD)
 1NO+1NC potential-free Snap Action Switch (IG)
-  Flexible Shaft, Male Coupling, Potentiometer, Encoder, Black Cover, Pinion Gear, Different Cam, Flange, Special Shaft, Cable, Connector, Adapter Plate etc.



WIND POWER INDUSTRY

ROTARY LIMIT SWITCH

MOVEMENT CONTROL FOR INDUSTRIAL MACHINERY

SERIES FRM

Rotary Limit Switch with max. 12 Contacts

IP66

Protection Degree: IP66



Operating Temperature:
-40°C...+80°C



Modular:
Contacts,
Cams,
Encoder with diverse interfaces



Material Housing:
Fibre-Reinforced Thermoplast
Material Shaft: Stainless Steel



Contacts:
1NO/1NC Snap Action Switch,
1NO+1NC potential free Snap Action Switch



Flexible Shaft,
Male Coupling,
Potentiometer,
Encoder,
Black Cover,
Pinion Gear,
Different Cam,
Flange,
Special Shaft,
Cable,
Connector,
Adapter Plate etc.



MOVEMENT CONTROL OF NACELLE AND BLADE

SERIES PRIMECAM

Electronic Rotary Limit Switch with SIL2-Approval
Absolute Accuracy $\pm 0,1^\circ$

IP66

Protection Degree: IP66



Operating Temperature:
-40°C...+80°C



Material Housing: Aluminium
Material Shaft: Stainless Steel



Free Adjustable Cam Positions and
Length,
Free Definable Working Area,
Diagnostic Function



All established Interfaces, incl.
Software. Max. 8 Contacts



Interfaces:
Analogue 4-20mA, 0-10V,
Incremental

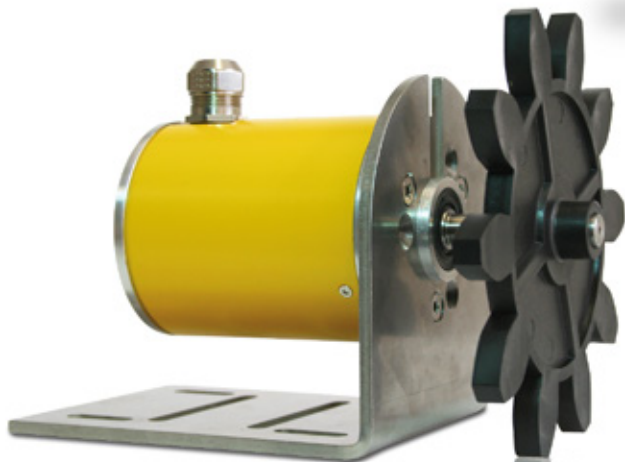


Optical Sensor System

Safety Integrated Level
SIL 2
IEC 61508



PRIMECAM[®]



SENSOR TECHNOLOGY

ENCODER

POSITION MEASUREMENT OF INDUSTRIAL MACHINERY

ROTARY ENCODERS MAGNETIC / OPTICAL

Accessory Rotary Limit Switches



Operating Temperature:
-40°C...+60°C



Potentiometer,
Incremental Encoders,
Optical Encoders,
Magnetic Encoders,
incl. Cables and Connectors



MORE ON REQUEST

ACCELERATION SENSOR / PINION GEAR

MECHANICAL ADAPTION OF ROTARY LIMIT SWITCHES AND ENCODERS

MEASUREMENT OF VIBRATION / ACCELERATION



IP67

Protection Degree: IP67



Operating Temperature:
-40°C...+85°C



Fibre-Reinforced Plastic Housing,
Metal Lashes for Mounting



Output:
4-20mA Analogue,
CANopen



Vibration

SERIES ZETA

Mechanical Adaption of Rotary Limit Switches and Encoders



Operating Temperature:
-40°C...+70°C
(Cold-Climate-Certification)



Module Sizes M1 up to M24,
Different Number of Teeth possible



Material:
Fibre-Reinforced Polyamide



Colour:
Black / White



SPECIAL SIZES OR PROTOTYPES ON REQUEST

SLIPRING

CRANES, PACKAGING MACHINES, AMUSEMENT RIDES,
UTILITY VEHICLES, TOOLING MACHINES, CABLE REELS

SERIES PRS



IP55

Protection Degree: IP55



20A / 30A / 50A



Metal Housing



6-15 Rings



Different Cover Heights

SERIES PRP



IP51

Protection Degree: IP51



20A / 30A / 50A



Plastic Housing



6-36 Rings



Hollow Shaft,
Extremely Flexible

SERIES PMS



IP55

Protection Degree: IP55



20A / 50A



Metal Housing



10-30 Rings



Absolute Encoder,
Micro Switches,
Media Leadthrough
(Gases or Liquids)

SERIES ROLLER



IP65

Protection Degree: IP65



10A



Metal Housing



6-24 Rings



Max. Operation Speed
100 U/min



Absolute Encoder,
Media Leadthrough
(Gases or Liquids)

SERIES PME

IP65

Protection Degree: IP65



20A / 50A / 100A



Metal Housing



20-60 Rings



Media Leadthrough
(Gases or Liquids)



CUSTOMER-SPECIFIC MODIFICATIONS

- Rings Gold or Silver, Number of Rings, Cable Length, Connectors

SERIES EXD



ATEX-Approval
Zone 21, 22



IP65

Protection Degree: IP65



0,5A / 7A / 34A



Metal Housing



4-7 Rings



Anti-Condensation-Heater

SERIES KOMBI-PMS



IP55

Protection Degree: IP55



20A / 50A



Metal Housing



6-30 Rings



Media Leadthrough
(Gases or Liquids)

SERIES PRM



20A / 30A / 50A



Metal Housing



18-42 Rings



5 Cover Heights,
Massive, Robust

SERIES PMP



20A / 30A / 50A



Metal Housing



18-42 Rings



Absolute-Encoder,
Micro Switches

SERIES PRG



50A / 80A / 120A



Without Housing



4-14 Rings



Flexible Mounting,
Hollow Shaft



SERIES PSG



20A / 60A



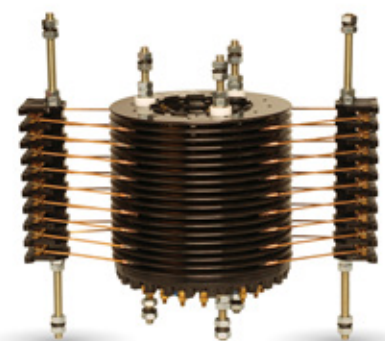
Without Housing



4-36 Rings



Flexible Mounting,
Inner Diameter up
to 196mm





ROTATING TRANSMISSION

MINIATURE SLIPRING

TRANSMISSION OF POWER AND DATA AT MINIMUM SPACE

SERIES ROTAR X

Compact Overall Size



Protection Degree: IP00-IP69 (on Request)



Operating Temperature: -20°C...+60°C



Modular:
Number of Rings,
Housing Length,
Diameter,
Flange,
Cable Length



Material:
Stainless Steel, Aluminium, Plastic

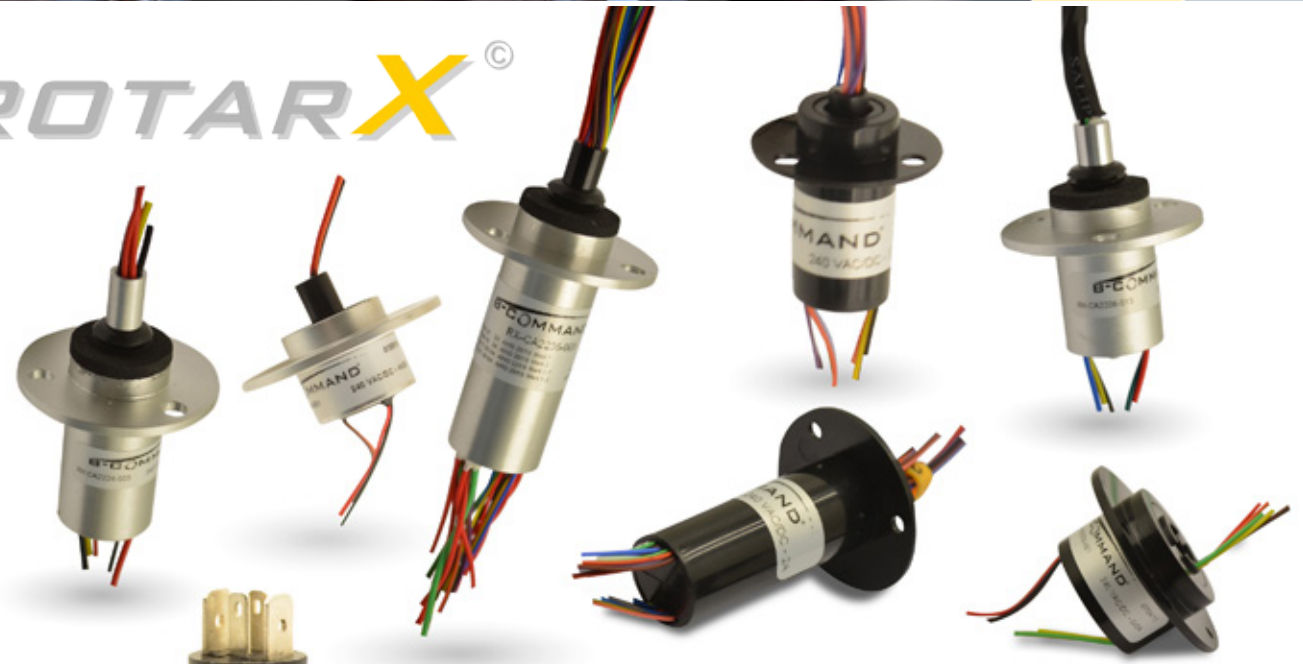


Media Leadthrough
(Gases or Liquids),
Special Flange,
Thread,
Heating,
Encoder

PLEASE SEND US YOUR SPECIFICATIONS FOR YOUR PROJECT



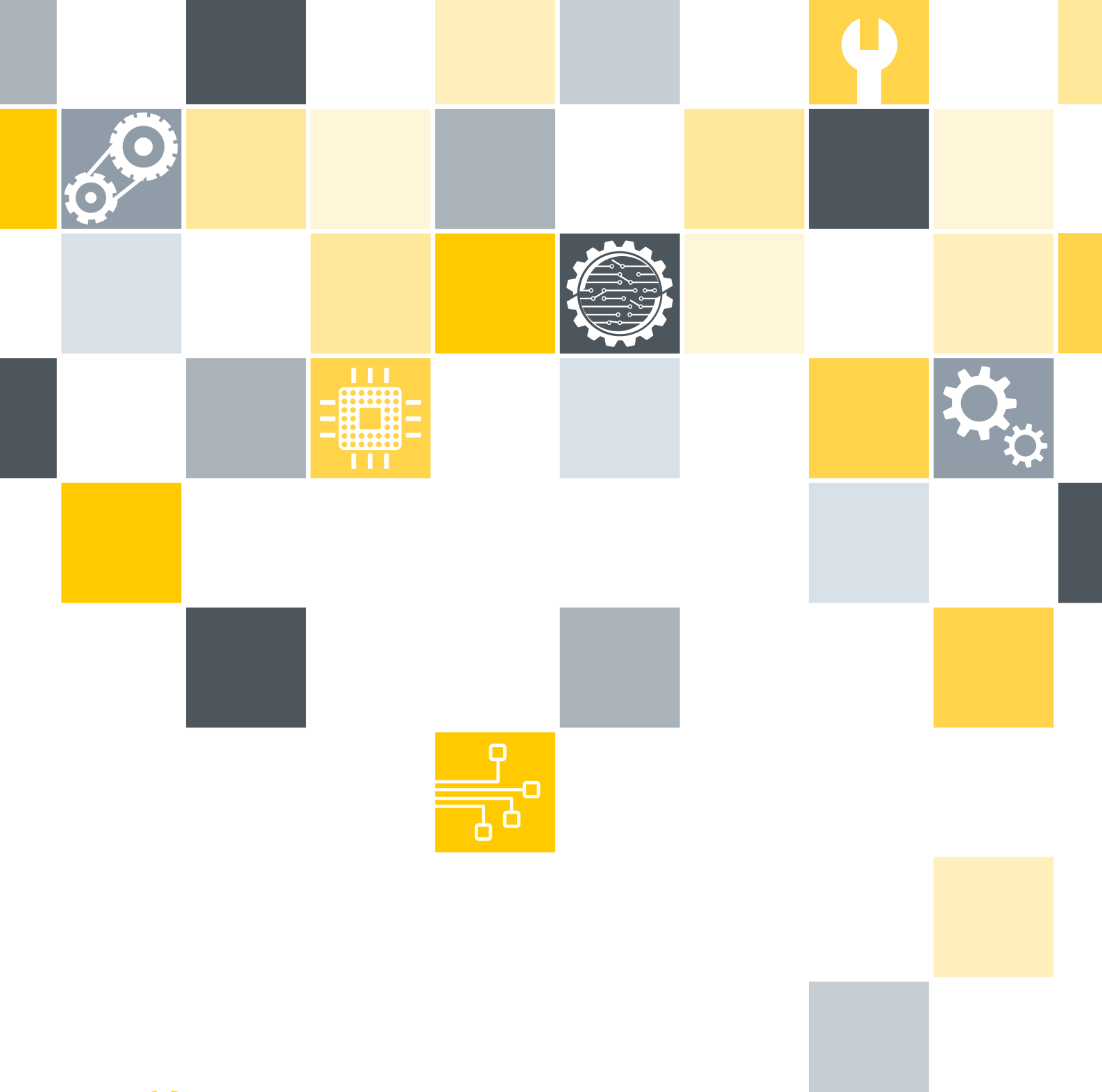
ROTARX[®]



- MORE TYPES**
- Capsulated Version
 - Hollow Shaft
 - Pancake
 - Fibre Optical
 - COAX
 - PS485
 - USB
 - HDMI
 - Without Housing
 - Wind Power Slipping
 - Super Miniature 8mm



MORE INFORMATION AT
 ■ www.b-command.com



B-COMMAND GmbH

GRUETZMUEHLENWEG 46
22339 HAMBURG
GERMANY
P. +49 40-538092-50
F. +49 40-538092-85
WEB: WWW.B-COMMAND.COM
MAIL: INFO@B-COMMAND.COM