PRODUCT OVERVIEW

B-COMMAND®
PREMIUM ENGINEERING

TABLE OF **CONTENT**

PENDANT CONTROL STATION
CONTROL STATIONS FOR AUXILIARY CIRCUIT APPLICATIONS

SERIES **LADY**

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

IP65	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

IP65	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

PENDANT CONTROL STATION
CONTROL STATIONS FOR AUXILIARY CIRCUIT APPLICATIONS

SERIES DIRECT
Main Circuit, Single-Row, 3 Buttons

IP65	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, 1-20 Buttons

IP65	Protection Degree: IP65
	Operating Temperature: -25°C...+70°C
	Auxiliary / Control Circuit
	Modular: maximum 20 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

PENDANT CONTROL STATION
CONTROL STATIONS FOR AUXILIARY CIRCUIT APPLICATIONS

JOSTICK / JOYSTICK STATION
HEAVY-DUTY ENVIRONMENTS

SPECIAL SOLUTIONS PENDANT STATIONS

Special Enclosures, Special Buttons, Wiring

SPECIAL BUTTONS

DISPLAY AND ILLUMINATED 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

JOYSTICK SERIES MC/MW

1 or 2 Axis, Hand-Grip, Potentiometer

MC / MW

IP65	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

JOYSTICK STATION COMPACT

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

CUSTOMIZED LAYOUTS

RADIO REMOTE CONTROL
CONTROL UNIT FOR RADIO REMOTE APPLICATIONS

SERIES **JUMP**

Different Housing Sizes, Double-Row

PACKAGE CONTAINS

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

IP65 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

INDUSTRY

EMERGENCY-STOP BUTTON
SECURE SHUTDOWN OF MACHINERY

SERIES **LAMBDA**

Small Overall Dimensions, 2-4 Contacts

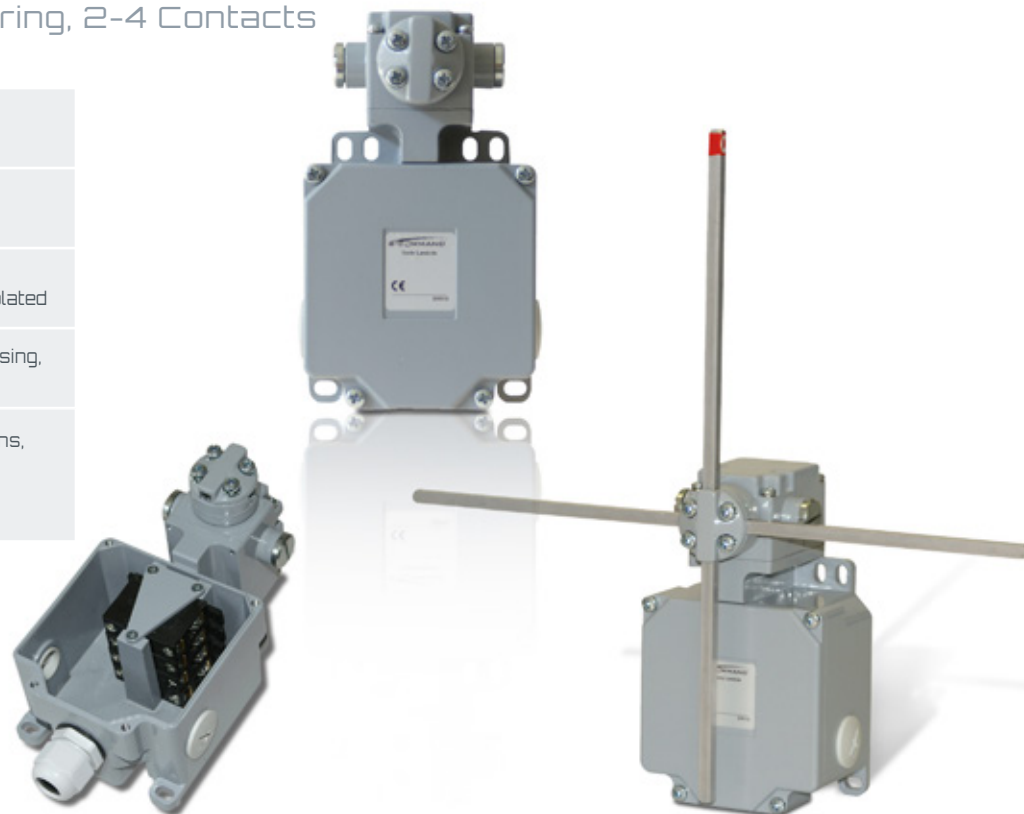| IP65	Protection Degree: IP65
	Operating Temperature: -20°C...+70°C
	max. Performance Level D, NO/NC Contacts Galvanically Isolated
	Heavy-Duty Zinc-Die-Cast Housing
+	Several Switching Configurations, Pre-Wired, incl. Cable Glands, Connectors

SERIES **ALPHA**

Optimized Space for Wiring, 2-4 Contacts

IP65	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

SERIES **SAFETY-LINE**

Wide Range of Products

IP65	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

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)
	ISO IEC ANSI NFPA
	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)
	ISO IEC ANSI NFPA
	Emergency-Stop-Button, Signal Lamp, Push-Button, Key Selector Switch, Mounting Bracket

SERIES **ACCEPT C**

Safety Handle Bar

FOOT SWITCH
HANDS-FREE OPERATION OF INDUSTRIAL MACHINERY

MINIATURE FOOT SWITCHES SERIES GAMMA

For Simple Commercial or Industrial Environments
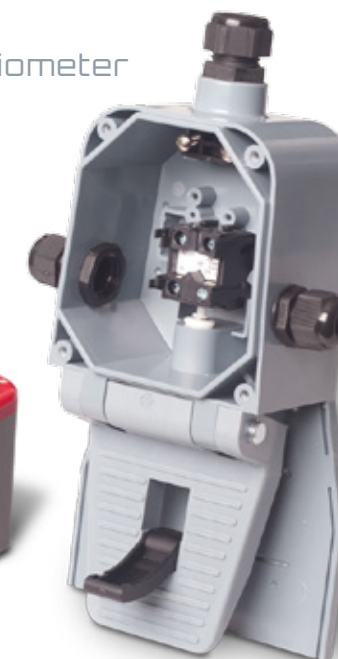
Operating Temperature:
-10°C...+70°C

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

MAIN SWITCH / ON-LOAD-SWITCH
SECURE SHUTDOWN OF INDUSTRIAL MACHINERY

SERIES **ECO-LINE**

Economic Solution for Switch-Off

IP65	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

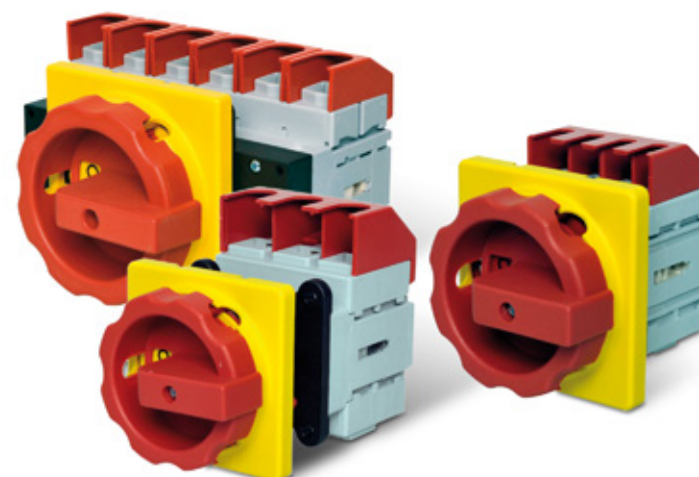| IP65	Protection Degree: IP65
	Operating Temperature: -20°C...+50°C
	16A - 400A
	Mounting Forms: 4-Hole-Frontside-Mounting, Central Mounting, Base Mounting, DIN-Mounting, Enclosure Version
	VDE 0660 IEC 6894 KEMA UL SR
	Lockable: Use of 3 Padlocks
	Undervoltage Circuit Breaker, Load Transfer Switch, Auxiliary Contacts, Red or Black Actuator, Label, Cable Gland

DC-CONTACTOR

DC-CONNECTOR

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

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

ROTARY LIMIT SWITCH
SECURE SWITCH-OFF OF MACHINERY MOVEMENT

SERIES **FRS**

Compact Rotary Limit Switch, 2-4 Contacts

IP65 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

IP65 Protection Degree: IP65

Operating Temperature:
-40C°...+80°C

Modular:
Contacts,
Cams,
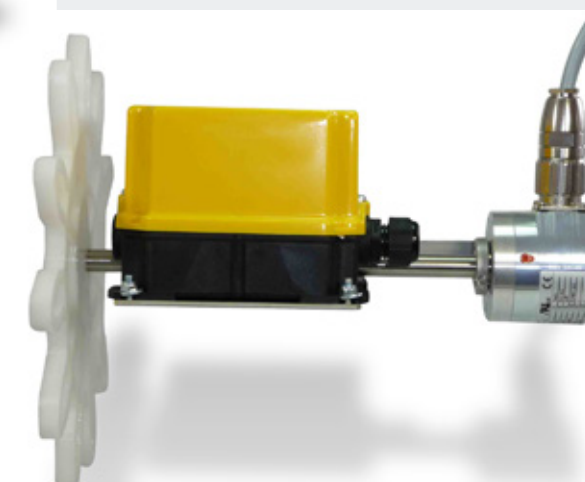Incremental or Absolute Encoder

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.

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 Ø,1°

IP66 Protection Degree: IP66

Operating Temperature:
-40°C...+80°C

Material Housing: Aluminium
Material Shaft: Stainless Steel

UL CE

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

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

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

CANopen PROFIBUS

Optical Sensor System

Safety Integrated Level
SIL 2
IEC 61508

PRIME**CAM**©

SENSOR TECHNOLOGY

ENCODER
POSITION MEASUREMENT OF INDUSTRIAL MACHINERY

CRANE TECHNOLOGY / WIND POWER INDUSTRY

ACCELERATION SENSOR / PINION GEAR
MECHANICAL ADAPTION OF ROTARY LIMIT SWITCHES AND ENCODERS

ROTARY ENCODERS MAGNETIC / OPTICAL

Accessory Rotary Limit Switches

Operating Temperature:
-40°C...+80°C

SIL 2
IEC 61508

SSi

CANopen

PROFI BUS

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

MORE ON REQUEST

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

CUSTOMER-SPECIFIC MODIFICATIONS

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

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 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 PME

- **IP65** Protection Degree: IP65
- 20A / 50A / 100A
- Metal Housing
- 20-60 Rings
- Media Leadthrough (Gases or Liquids)

SERIES PRG

- 50A / 80A / 120A
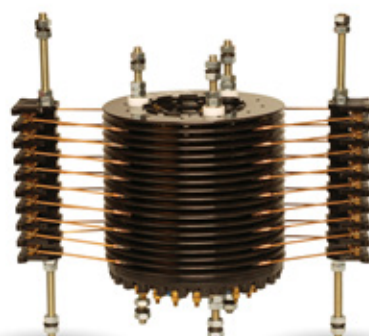- Without Housing
- 4-14 Rings
- Flexible Mounting, Hollow Shaft

SERIES PSG

- 20A / 50A
- Without Housing
- 4-36 Rings
- Flexible Mounting, Inner Diameter up to 196mm

MINIATURE SLIPRING
TRANSMISSION OF POWER AND DATA AT MINIMUM SPACE

SERIES **ROTAR X**

Compact Overall Size

rotarX ©

Protection Degree: IP00-IP69 (on Request)

Operating Temperature: -20°C...+60°C
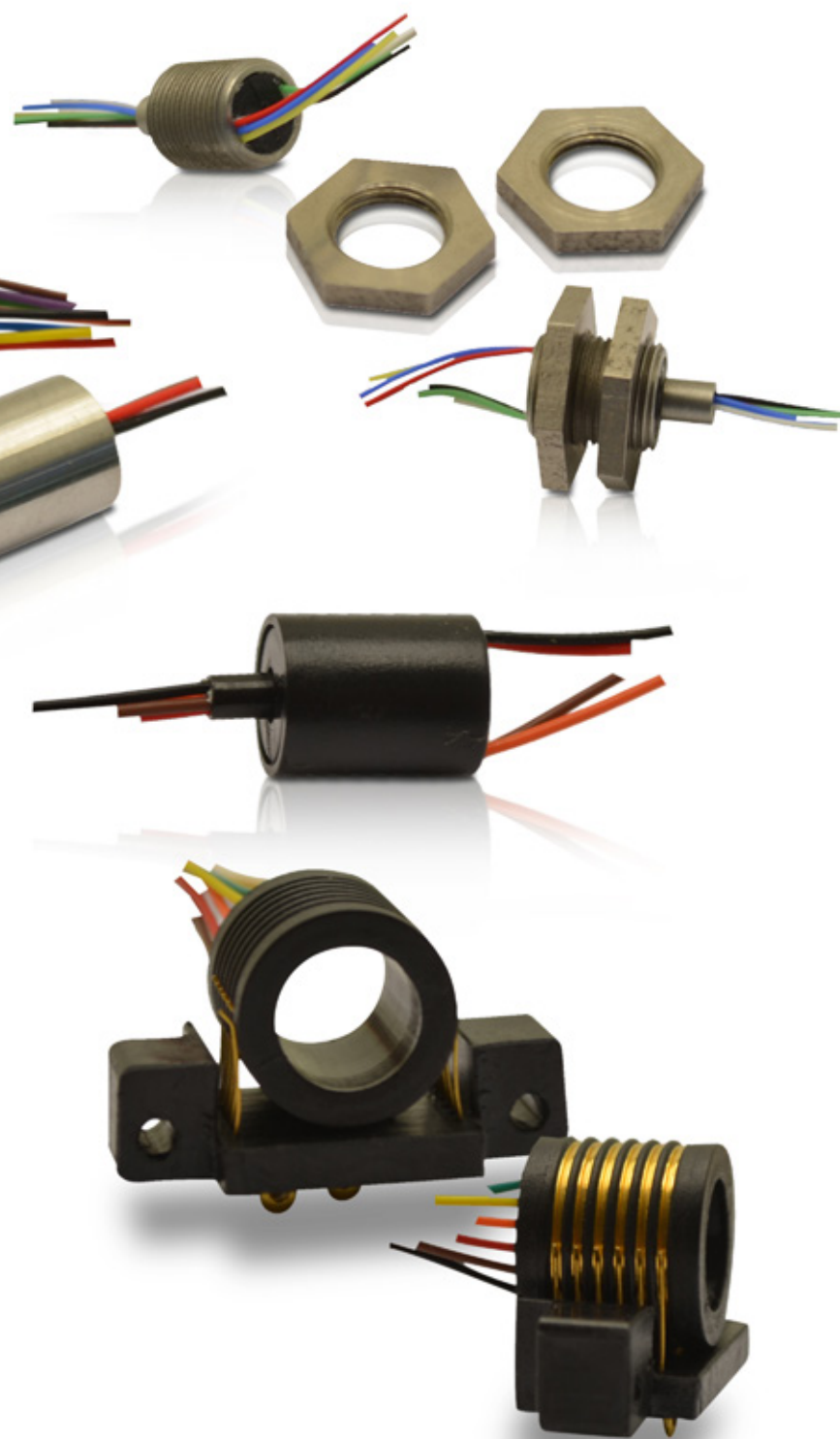
Modular:
Number of Rings,
Housing Lenght,
Diameter,
Flange,
Cable Length

Material:
Stainless Steel, Aluminium, Plastic

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

MORE TYPES

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

MORE INFORMATION AT

- www.b-command.com

PLEASE SEND US YOUR SPECIFICATIONS FOR YOUR PROJECT

B-COMMAND®
PREMIUM ENGINEERING

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