

Industries



windenergy

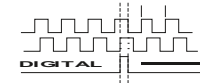


mining

automation


oil production

solarenergy

Further options

-  Digital output: standard, inverted or differentiated. Including zero pulse (Z).
-  Cable output: rear (axial) sideways (radial)
-  Cable length: on request

Standard for all encoders

-  Operating temperature: -40°C up to +85°C
- Operating temperature for rotary encoders Type SC09, SCA16 and SCH16F: 0°C up to +70°C
- Thermal fuse up to 155°C
- Polarity protection and short circuit protection
- Robust, compact electronic, SMD technology
- Directly connectable to IPC or Counter
- CE certified by EN50081-1 and EN50082-2
- Ex-proofed Emitter with EEx certificate for EXX-d IIC T6 and EXX-d IIB T6 for rotary encoder Type 2REX-A, 2REX-H, 2REXI and Type D

Mounting kits

Maxon motor
Mounting flange and spring coupling-kit available for motors from ø9, ø16 up to ø45 and ø75

Faulhaber and Minimotors
Mounting flange and spring coupling kits available for motors from ø9, ø16 up to ø38

Wittenstein
Mounting flange and spring coupling kits available for motors from ø22 up to ø32

Portescap
for 28DT12

Mavilor
Mounting flange and spring coupling kits available for motors from ø24 up to ø34 and ø34


Dunkermotors
for ø60







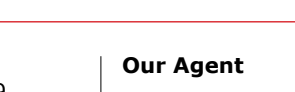
Transcoil
for ø16 and ø19

Danfoss
for OMS

More than 150 mounting kits for small DC / EC motors

Accessories

-  metal bellow couplings
-  Polyamide couplings
-  Spring coupling
-  Measuring wheels
-  Mil plug, mounted axially
-  IDC plug for flat cable
-  Coninamplifier

-  Mounting flange
-  Pressure chamber
-  Mounting plates
-  Torsional stiff spring coupling
-  Custom rotary encoder solutions
-  very large axle bearing blocks
-  More than 150 special accessory sets for small DC / EC motors



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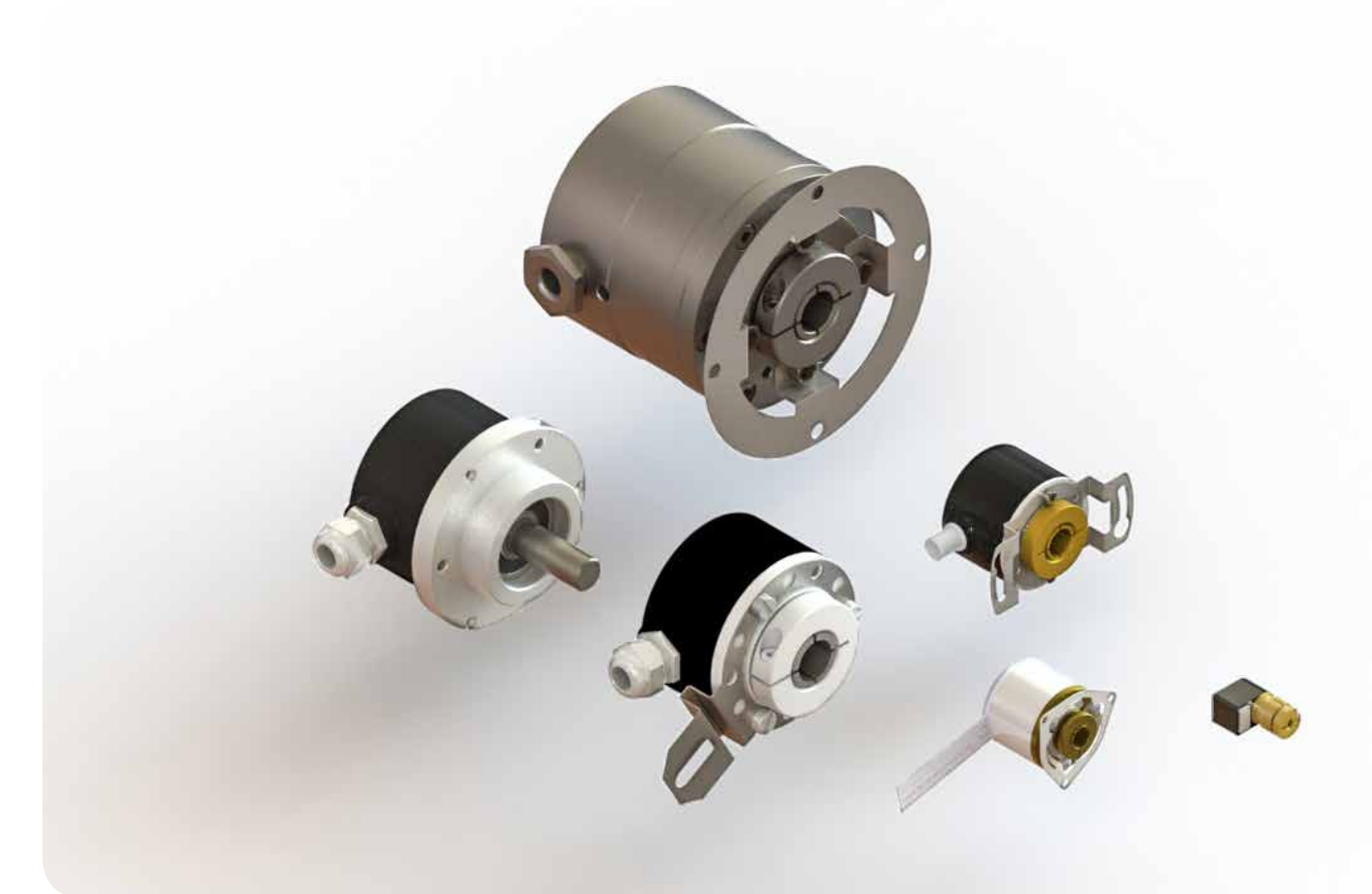
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Our Agent



Product Overview

INDUSTRIAL ENCODERS

- > Hollow shaft
- > Shaft
- > up to 12500 pulses
- > Ex-proof
- > Suitable for heavy engineering
- > Customized solutions
- > Accessories
- > Nano ø 9
- > Micro ø 16
- > Mini ø 24



Industrial encoders - incremental

Product type	Pulses	Diameter without spring	Max. frequency or Rpm	Shaft loading	Supply voltage	IP-protection type	Shaft diameter	Options
 SC09 Nano hollow shaft Rotary encoder Nano - Ø 9	500	Ø 9 mm	200kHz or max. 12000 Rpm	Radial: 1N Axial: 1N	5,0V	IP54	Ø 2	- Flat cable
 SCA16 Micro shaft Rotary encoder Micro - Ø 16	100 up to 5000	Ø 16 mm	200kHz or max. 12000 Rpm	Radial: 5N Axial: 5N	5,0V	IP50 or IP60	Ø 2 Ø 3 Ø 4	- Flat cable - 10 Conductors with IDC-connector
 SCH16F Micro hollow shaft Rotary encoder Micro - Ø 16	100 up to 5000	Ø 16 mm	200kHz or max. 12000 Rpm	Radial: 5N Axial: 5N	5,0V	IP50	Ø 1,5 Ø 2 Ø 3 Ø 1/8"	- Flat cable - 10 Conductors with IDC-connector
 SCA24 Mini shaft Rotary encoder Mini - Ø 24	4 up to 7500	Ø 24 mm	200kHz or max. 12000 Rpm	Radial: 20N Axial: 20N	4,5V up to 30,0V	IP64 or IP65	Ø 4 Ø 6	- Shaft length: 5,9,15 or 20 mm - Silicon cable - Flat cable - Telephone cable
 2RMHF Mini hollow shaft Rotary encoder Mini - Ø 24	4 up to 7500	Ø 24 mm	200kHz or max. 12000 Rpm	Radial: 20N Axial: 20N	4,5V up to 30,0V	IP64	Ø 3 Ø 4 Ø 5 Ø 6 Ø 1/4"	- Silicon cable - Flat cable - Telephone cable
 SCA30 Shaft Rotary encoder Mini - Ø 30	4 up to 7500	Ø 30 mm	200kHz or max. 9000 Rpm	Radial: 15N Axial: 10N	4,5V up to 30,0V	IP50 or IP65	Ø 4 Ø 6	- Silicon cable
 SCA38 Shaft Rotary encoder Mini - Ø 38	4 up to 7500	Ø 38 mm	200kHz or max. 9000 Rpm	Radial: 20N Axial: 10N	4,5V up to 30,0V	IP50 or IP65	Ø 4 Ø 6	- Silicon cable
 SCA50 Shaft Rotary encoder Standard	1 up to 12500	Ø 50 mm	300kHz or max. 12000 Rpm	Radial: 20N Axial: 20N	4,5V up to 30,0V	IP65 or IP67	Ø 6 Ø 8 Ø 10 Ø 1/4" Ø 3/8"	- Silicon cable
 SCA58 Shaft Rotary encoder Standard	1 up to 12500	Ø 58 mm	300kHz or max. 12000 Rpm	Radial: 20N Axial: 20N	4,5V up to 30,0V	IP65 or IP67	Ø 6 Ø 8 Ø 10 Ø 1/4"	- Silicon cable
 SCH50i Hollow shaft, continuous Front assembly Standard	1 up to 9000	Ø 55 mm	300kHz or max. 3000 Rpm	Radial: 50N Axial: 50N	4,5V up to 30,0V	IP65	Ø 10 Ø 12 Ø 14	- Silicon cable
 SCH50iB Hollow shaft Front / rear assembly Standard	1 up to 9000	Ø 50 mm	300kHz or max. 6000 Rpm	Radial: 50N Axial: 50N	4,5V up to 30,0V	IP65	Ø 10 Ø 12 Ø 14 Ø 15 Ø 16	- Silicon cable
 SCH50B Hollow shaft, continuous Front assembly Standard	1 up to 12500	Ø 50 mm	300kHz or max. 12000 Rpm	Radial: 20N Axial: 20N	4,5V up to 30,0V	IP65	Ø 6 Ø 8	- Silicon cable
 SCH50F Hollow shaft Front assembly Standard	1 up to 12500	Ø 50 mm	300kHz or max. 12000 Rpm	Radial: 20N Axial: 20N	4,5V up to 30,0V	IP65	Ø 6 Ø 8	- Silicon cable

Industrial encoders - incremental

Product type	Pulses	Diameter without spring	Max. frequency or Rpm	Shaft loading	Supply voltage	IP-protection type	Shaft diameter	Options
 SCA50-SR Shaft Rotary encoder Stainless steel and IP67	1 up to 12500	Ø 50 mm	300kHz or max. 6000 Rpm	Radial: 20N Axial: 20N	4,5V up to 30,0V	IP67	Ø 6 Ø 8 Ø 10	- Silicon cable
 SCA50IF-SR Hollow shaft Rotary encoder Stainless steel and IP67	1 up to 9000	Ø 50 mm	300kHz or max. 3000 Rpm	Radial: 50N Axial: 50N	4,5V up to 30,0V	IP67	Ø 10 Ø 12 Ø 14 Ø 15	- Silicon cable
 2RK Shaft Rotary encoder For heavy duty	1 up to 125000	Ø 58 mm	300kHz or max. 6000 Rpm	Radial: 100N Axial: 50N	4,5V up to 30,0V	IP65 or IP67	Ø 10 Ø 3/8"	- Silicon cable
 2R58 Shaft Rotary encoder For heavy duty	1 up to 12500	Ø 58 mm	300kHz or max. 6000 Rpm	Radial: 50N Axial: 50N	4,5V up to 30,0V	IP66	Ø 6 Ø 8 Ø 10	- Silicon cable
 SCH94FO Hollow shaft Rotary encoder For heavy duty	1 up to 10000	Ø 94 mm	100kHz or max. 3000 Rpm	Radial: 200N Axial: 400N	4,75V up to 30,0V	IP65 or IP66	Ø 16 max.	- Digital Output - Fiber Optic
 2RMHD Shaft Rotary encoder For heavy duty	4 up to 7500	60 mm x 60 mm x 71 mm	200kHz or max. 3000 Rpm	Radial: 250N Axial: 250N	4,5V up to 30,0V	IP65	Ø 15	- Silicon cable - Cable output only at the back
 2RHDS Shaft Rotary encoder For heavy duty	1 up to 12500	70 mm x 70 mm x 94 mm	300kHz or max. 3000 Rpm	Radial: 500N Axial: 500N	4,5V up to 30,0V	IP65 or IP67	Ø 12 Ø 15	- Silicon cable
 2REX-H Hollow shaft Rotary encoder ATEX Ex-proof	1 up to 9000	Ø 68 mm	300kHz - IP66 = max. 3000 Rpm - IP67 = max. 1500 Rpm	Radial: 50N Axial: 50N	4,5V up to 30,0V	IP66 or IP67	Ø 10 Ø 12 Ø 14 Ø 15	- Halogen free cable - Cable jack for hydraulic tube - Stainless steel = IP67
 2REX-A Shaft Rotary encoder ATEX Ex-proof	1 up to 9000	Ø 68 mm	300kHz - IP66 = max. 3000 Rpm - IP67 = max. 1500 Rpm	Radial: 50N Axial: 50N	4,5V up to 30,0V	IP66 or IP67	Ø 10	- Halogen free cable - Cable jack for hydraulic tube - Stainless steel = IP67
 2REXI Shaft Rotary encoder ATEX Ex-proof	1 up to 9000	Ø 68 mm	300kHz or max. 3000 Rpm	Radial: 50N Axial: 50N	4,5V up to 30,0V	IP65	Ø 16 Ø 8 G7	- Halogen free cable - Magnetic rotary detector - Cable output only sideways
 SCH86BEX Through hollow bore ATEX Ex-proof	1 up to 4096	Ø 86 mm	300kHz or max. 6000 Rpm	Radial: 100N Axial: 50N	4,5V up to 30,0V	IP 65 (IP 66 & 67 optional)	Ø 20 to Ø 25, Ø 5/8 inch to Ø 1 inch	- Material options (AISI 316) - Pulses pr. revolution max. 10000
 SCH24EX Solid shaft + Coupling ATEX Ex-proof	25 up to 3600	Ø 24 mm	200 kHz or max. 3000 Rpm	Radial: 10N Axial: 10N	5V up to 24V	IP 64 up to 67	Ø 2 Ø 3	- Halogen free cable
 SCA24EX Solid shaft ATEX Ex-proof	25 up to 3600	Ø 24 mm	200kHz or max. 3000 Rpm	Radial: 10N Axial: 10N	5V up to 24V	IP67	Ø 4 Ø 6	- Halogen free cable

Industrial encoders - absolute

Product type	Diameter	Shaft	Interface	Version	Resolution	IP-protection type	Flange	Housing
 SCA24AN Nano shaft Encoder Mini - Ø 24	24	Shaft Ø 3-6 mm	SSI, analog	Singleturn	10 Bit	IP64	Servo	Steel
 SCH24AB Micro Hollow shaft Encoder Mini - Ø 24	24	Hollow shaft Ø 3-6 mm	SSI, analog	Singleturn	10 Bit	IP64	3-point-Spring	Steel
 SCM Micro shaft Encoder Mini - Ø 36	36	Shaft Ø 6 mm	SSI, CANopen	Singleturn, Multiturn	12 Bit, 12/13 Bit	IP54, IP64	Servo	AL
 SCM Mini shaft Encoder Mini - Ø 36	36 - 58	Shaft Ø 10 mm	SSI, CANopen	Singleturn, Multiturn	12 Bit, 12/13 Bit	IP54, IP64	Clip	AL
 SCM Mini Hollow shaft Encoder Mini - Ø 36	36	Hollow shaft	SSI, CANopen	Singleturn, Multiturn	12 Bit, 12/13 Bit	IP54, IP64	Spring	AL
 SAG Shaft Encoder Standard - Ø 58	58	Shaft Ø 6-10 mm	SSI, CANopen, Profibus, DeviceNet, Ethernet, Profinet IO	Singleturn, Multiturn	12/14 Bit, 12/13/16 Bit	IP64	Synchro / Clip	Steel
 SAG Hollow shaft Encoder Standard - Ø 58	58	Hollow shaft bis Ø mm	SSI, CANopen, Profibus, DeviceNet, Ethernet, Profinet IO	Singleturn, Multiturn	12/14 Bit, 12/13/16 Bit	IP64	Spring	Steel
 EXAG ATEX Shaft Encoder ATEX Standard - Ø 78	78	Shaft Ø 10 mm	SSI, CANopen, Profibus, DeviceNet, Profibus Dual / inkr.	Singleturn, Multiturn	12/14 Bit, 12/16 Bit	IP64 - IP68	Servo, Clip, Vierkant	AL, AISI303, AISI316
 EXAG ATEX Hollow shaft Encoder ATEX Standard - Ø 78	78	Hollow shaft Ø 12, 14, 16 mm	SSI, CANopen, Profibus, DeviceNet, Ethernet	Singleturn, Multiturn	12/14 Bit, 12/16 Bit	IP64 - IP68	Servo, Clip, Vierkant	AL, AISI303, AISI317
 EXAG ATEX Mining Shaft Front assembly ATEX Standard - Ø 78	78	Shaft Ø 10 mm	SSI, CANopen, Profibus, DeviceNet	Singleturn, Multiturn	12/14 Bit, 12/16 Bit	IP64 - IP68	Servo, Clip, Vierkant	AL, AISI303, AISI318
 EXAG ATEX Mining Hollow shaft Front assembly / hinten ATEX Standard - Ø 78	78	Hollow shaft Ø 12, 14, 16 mm	SSI, CANopen, Profibus, DeviceNet	Singleturn, Multiturn	12/14 Bit, 12/16 Bit	IP64 - IP68	Servo, Clip, Vierkant	AL, AISI303, AISI319