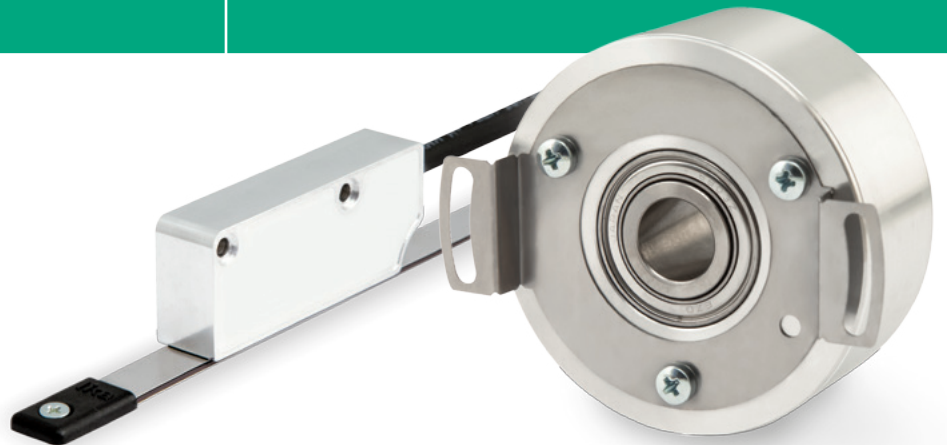
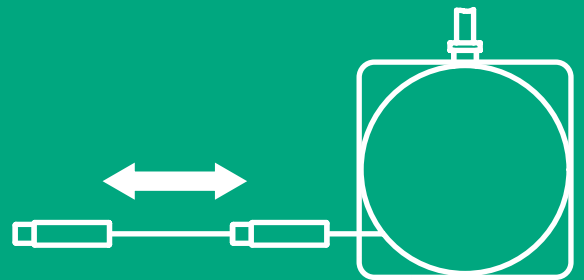
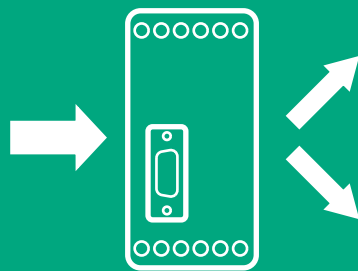
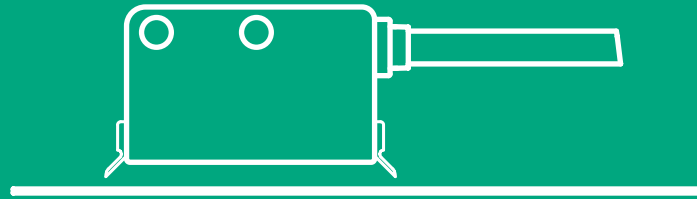
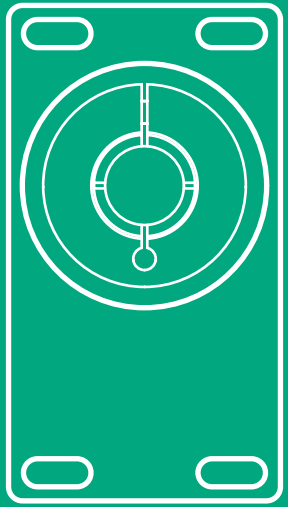
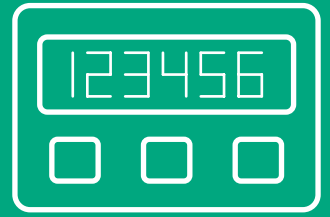
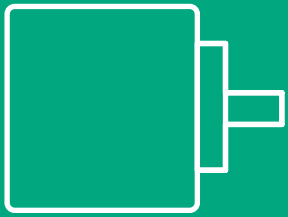




30 YEARS
YOUNG
1982.2012

lika



General catalogue 2015



Gennaio | January

IQ58 product family
Programmable incremental encoder.
Versatile & convenient with resolution up to 16384 PPR.



Febbraio | February

SMP linear encoder
Linear magnetic encoder
for integration into guided systems.



IR01
Wheel encoder for conveyor systems
& precise length measurements.

Marzo | March

SFE 5/10 meters
Incremental wire encoder with programmable
resolution and universal output circuit.



SFA 5/10 meters
Compact absolute wire encoder with SSI output.

Aprile | April

SMLA
Non-contact encoder for absolute sensing
on arcs & round surfaces.



SMR5H
Incremental sensor for internal sensing on arcs & rings.

Maggio | May

I58 - CK58 ATEX
Full range of incremental encoders
for ATEX zone 2/22 applications.



IFS-10
SIL3 certified safety encoder motion monitor.

Giugno | June

EM58 Powerlink
Absolute single & multturn encoders
with Powerlink interface.



SFA Analogue 5/10 m
Absolute wire encoder with programmable
analogue output and set-buttons.

Luglio | July

RD6
Rotary actuator with integrated absolute
multiturn encoder and position controller.



Agosto | August

I28
Compact Ø28mm encoder with extended
range of resolutions, up to 2048 PPR.



C50
Standard hollow shaft encoder
with high resolutions up to 8192 PPR.

Settembre | September

AST6 - AMT6
Square flange optical absolute
encoder with extended
resolutions up to 18 bit, 16x14 bit.



EM58 Modbus TCP/IP
Absolute single & multturn encoders
with Modbus/TCP-IP interface.

Ottobre | October

AM58 CANopen
Robust version for mobile applications.
Absolute & reliable.



IK inclinometer
Absolute inclinometer with 1 and 2 axis
& high protection.

Novembre | November

RD1 EC
RD1 series of rotary actuators
with EtherCAT interface.



Dicembre | December

IQ36
Compact Ø36mm programmable incremental encoder
with resolution up to 16384 PPR.





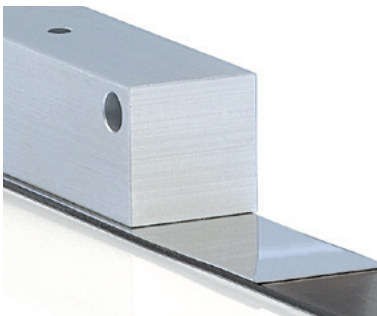
ROTAPULS
Incremental rotary encoders



ROTACOD
Absolute rotary & Fieldbus encoders



ROTAMAG
Rotary Magnetic encoder & Encoder modules



LINEPULS - LINECOD
Linear Absolute & Incremental encoders



DRAW-WIRE
Draw-wire encoders & potentiometers



COUPLINGS
Flexible & Transmission couplings



POSICONTROL
Displays & Signal converters
Encoder Interfaces



DRIVECOD
Rotary Actuators & Positioning units



**30 YEARS
YOUNG**
1982.2012

1982
Lika Electronic
founded in Schio (VI).

1986
Manufacturing of
absolute encoders with
integrated display and
incremental encoders
for the Italian market.

1993
Lika Electronic is the
first company in Italy
to offer a complete
portfolio of encoders
in the 58 mm diam.
range.

1997
Lika is first certified
to ISO 9001:1994.



1982

1986

1990

1995

1983
Lika numbers 8
customers.

1985
Lika starts the
production of
absolute encoders
for the German
market.

1987
Lika produces a 50 mm
diameter miniature
encoder, the smallest
absolute encoder in
Europe.

1995
The 100,000th
encoder rolled off the
production line.

1996
ROTACAM ASR58 is the
first absolute encoder
fitted with integrated
cam programmer.

An international family company, corporate profile

Lika Electronic stands for encoders and position measuring systems. Since its inception in 1982, Lika Electronic develops and manufactures *incremental and absolute, optical and magnetic, rotary and linear encoders, incremental & absolute sensors, linear and rotary incremental & absolute magnetic measurement systems, rotary actuators, displays, signal converters and encoder interfaces.*

Starting as a family-owned business, thanks to its technical competence and comprehensive know-how in the automation industry along with the high quality standards and the skill in providing solutions that target specific customer needs, over the years **Lika Electronic has grown becoming a forward thinking innovative and global company** and has become one of the leading manufacturers of optical encoders and magnetic measurement systems in Europe and worldwide.

Many key features include the extensive technical engineering skills, in-depth knowledge and expertise in digital and analogical electronic design as well as the proven daily practice in co-operation with universities, research institutions and customers in order to **develop and provide advanced electronic equipment and high-tech materials & devices tailored to specific customer and market requirements.** Moreover software development and mechanical & optical components design are entirely performed within the company. Often production machinery and tools are often engineered and built internally to satisfy specific needs and performances.

Every day Lika Electronic is committed to being a step ahead and always at the forefront of innovation, looking to the future with the enthusiasm that steers the company towards new opportunities *without giving up the strength of being an international family company.*

Lika Electronic is certified for compliance with ISO 9001:2000 quality management system and is now com-

mitted to adopt an environmental management system complying with ISO 14001:2004 requirements. All Lika's products are designed and manufactured to fully meet the requirements of CE, RoHS and REACH directives, most of them are UL and CSA compliant too. ATEX certified solutions suitable to be integrated into potential explosive environments and hazardous areas are also available.

Global presence, make us closer to the customer



Every day, everywhere Lika Electronic works in close contact with its customers to build strong, long-lasting relationships and support them at all times in each day-to-day requirement. Lika's actions focus on customers' needs with daily challenges to develop reliable and cutting edge solutions. *Continuous innovation, outstanding expertise, overall quality, prompt action and maximum flexibility* are the fundamental values that Lika Electronic is truly proud of offering its customers when working together.

The Rosetta space mission

Lika is proud to be part of the international team of companies that, under the guide of the **European Space Agency (ESA)** has allowed to achieve this historic result. Visit our website for full information.

Lika Electronic operates all over the world providing a widespread and efficient global distribution network, offering unrivalled technical support and excellent customer service. At the present time the export share is approximately 60% of the turnover in more than 50 countries.

<p>2000 ROSETTA space probe project gets under way in co-operation with CISAS.</p>		<p>2002 Production in antistatic environment (ESD). DRIVECOD & POSICONTROL product ranges are launched in the market.</p>		<p>2007 Lika Electronic celebrates its 25th anniversary.</p>	<p>2012 30th anniversary: "30 new products for our 30 years" event launched.</p>	<p>2015 Certificate ISO 14001:2004</p>
<p>1998 First 16-bit resolution single-turn absolute encoder engineered for installation in aerostatic probes developed by Florence University.</p>	<p>2000</p>	<p>2004 Ariane 5 rocket successfully launched: Rosetta probe fits Lika encoders.</p>	<p>2004</p>	<p>2008 ALMA project: giant array of 12-m radio telescopes equipped with special custom-made Lika encoders.</p>	<p>2008</p>	<p>2010 Lika introduces the innovative range of heavy-duty products dedicated to steel & iron industry and wind mills.</p> <p>2013 Lika South East Asia founded in Thailand.</p>

ROTAPULS incremental encoders for standard applications



		Housing \varnothing (mm)	Shaft max. \varnothing (mm)	Shaft rotational speed max. (rpm)	Resolution max. (PPR)	NPN	PNP	1Vpp	Push-Pull	Line Driver	Universal circuit	Operating temp. °C (°F) min. - max.	Protection max.
	I28 Miniature light-duty encoder.	28	● 5	3000	2048	•			•	•	•	-20 +70 (-4 +158)	IP54
	MI36 - MC36 Compact magnetic encoder.	36	● 6 ○ 6	12000	2048	•			•	•		-25 +85 (-13 +185)	IP67
	I40 - I41 Compact shaft encoder.	40	● 8	6000	5000	•	•		•	•	•	-25 +85 (-13 +185)	IP66
	CK46 - CK41 Compact blind hollow shaft encoder.	41	○ 6	6000	5000	•	•		•	•	•	-25 +85 (-13 +185)	IP65
	I58 - I58S Industrial grade shaft encoder.	58	● 12	12000	10000	•	•	•	•	•	•	-40 +100 (-40 +212)	IP65
	C58 - C59 - C60 Industrial grade through hollow shaft encoder.	58	○ 15	6000	5000				•	•	•	-40 +100 (-40 +212)	IP65
	C58A - C58R Industrial grade through hollow shaft encoder. Front or back collar fixing.	58	○ 15	6000	5000				•	•	•	-40 +100 (-40 +212)	IP65
	CK58 - CK59 - CK60 Industrial grade blind hollow shaft encoder.	58	○ 15	6000	10000	•	•	•	•	•	•	-40 +100 (-40 +212)	IP65
	MC58 - MC59 - MC60 Magnetic through hollow shaft encoder.	58	○ 15	6000	10000				•	•	•	-25 +85 (-13 +185)	IP67
	I65 - IT65 Industrial grade shaft encoder with MIL connector.	65	● 12	6000	10000	•	•		•	•	•	-40 +100 (-40 +212)	IP66


ROTACOD absolute encoders for general use



		Housing \varnothing (mm)	Shaft max. \varnothing (mm)	Shaft rotational speed max. (rpm)	Resolution max. (PPR or Bit)	NPN / Push-Pull	SSI	BISS	Modbus / RS485	Additional incremental track	Analogue output	Operating temp. °C (°F) min. - max.	Protection max.
	MS36 - MSC36 MM36 - MMC36 Compact magnetic encoder. Single & multiturn version.	36	● 6 ○ 6	12000	13 12 x 16		•					-20 +85 (-4 +185)	IP67
	AS36 - ASC36 AM36 - AMC36 Compact shaft & hollow shaft encoder. High resolution.	36	● 6 ○ 6	6000	20 20 x 16		•	•				-40 +100 (-40 +212)	IP65
	ES58 - ES58S - ESC58 EM58 - EM58S - EMC58 Industrial grade encoders. Shaft & blind hollow shaft versions.	58	● 12 ○ 15	12000	13 13 x 14	•	•		•	•		-40 +100 (-40 +212)	IP67
	HS58 - HS58S - HSC58 HM58 - HM58S - HMC58 Industrial grade high resolution encoders. Shaft & blind hollow shaft versions.	58	● 12 ○ 15	6000	19 + 2048 PPR 16 x 14 + 2048 PPR		•	•		•		-40 +100 (-40 +212)	IP65
	HSCT - HMCT Industrial grade high resolution encoders. Through hollow shaft.	58	○ 15	6000	18 16 x 12 + 2048 PPR		•	•		•		-25 +85 (-13 +185)	IP65
	MM58 - MM58S - MMC58 Magnetic multiturn encoders. Shaft & through hollow shaft versions.	58	● 12 ○ 15	12000	12 x 16		•					-20 +85 (-4 +185)	IP67
	AS58 A - AM58 A Industrial grade encoders with precise analogue output.	58	● 12 ○ 15	6000	12 tot. 16						•	-20 +85 (-14 +185)	IP65
	AST6 - AMT6 Industrial grade encoders with square flange.	65	● 12	6000	18 16 x 14	•	•			•		-25 +85 (-13 +185)	IP65
	AM9 - AMC9 Multiturn encoders with shaft & through hollow shaft. Low profile housing.	88	● 10 ○ 15	6000	13 x 12		•					-40 +100 (-40 +212)	IP65







ROTAPULS • ROTACOD programmable encoders



		Housing ø (mm)	Shaft max. ø (mm)	Shaft rotational speed max. (rpm)	Resolution max. (PPR or Bit)	NPN / Push-Pull	Line Driver	Universal circuit	SSI	BiSS	Analogue output	Operating temperature °C (°F) min. - max.	Protection max.
	IP58 - IP58S - CKP58 High resolution incremental encoder. Shaft & blind hollow shaft versions.	58	● 12 ○ 15	12000	65536			•				-25 +85 (-13 +185)	IP65
	IQ58 - IQ58S - CKQ58 Standard incremental encoder. Shaft & blind hollow shaft versions.	58	● 12 ○ 15	12000	16384			•				-40 +100 (-40 +212)	IP65
	HM58 P - HM58S P HMC58 P Absolute multiturn encoder. Possibility of resolution teach-in.	58	● 12 ○ 15	12000	18 x 14	•			•			-40 +100 (-40 +212)	IP67
	EM58 TA - EM58S TA EMC58 TA Absolute encoder with programmable analogue output. Teach-in buttons.	58	● 12 ○ 15	12000	12 x 14						•	-25 +85 (-13 +185)	IP67
	EM58 PA - EM58S PA EMC58 PA Fully programmable absolute encoder with analogue output.	58	● 12 ○ 15	12000	12 x 14						•	-25 +85 (-13 +185)	IP67

ROTACOD absolute encoders with fieldbus interface






		Housing ø (mm)	Shaft max. ø (mm)	Shaft rotational speed max. (rpm)	Connection cap with PG	Connection cap with M12 connectors	Resolution max. (bits)	CANopen	CANopen LIFT	Profibus-DP	DeviceNet	EtherCAT	Profinet	Powerlink	Operating temperature °C (°F) min. - max.	Protection max.
	AS58 PB - AM58 PB AS58 CB - AM58 CB Standard encoders with Profibus & CANopen interface. PG & M12 connections.	58	● 12 ○ 15	6000	•	•	13 13 x 12	•		•					-25 +85 (-13 +185)	IP65
	HS58 FB - HM58 FB High resolution encoders with Fieldbus interface. PG & M12 connections.	58	● 12 ○ 15	6000	•	•	18 16 x 14	•	•	•	•				-25 +85 (-13 +185)	IP65
	AS58 - AM58 CANopen CANopen encoder with single output (point-to-point). Shaft & blind hollow shaft.	58	● 12 ○ 15	6000			18 16 x 14	•	•						-25 +85 (-13 +185)	IP65
	EM58 PT - HS58 PT HM58 PT Standard & high resolution encoders with Profinet interface.	58	● 12 ○ 15	6000	-	•	13 x 14 18 16 x 14						•		-25 +85 (-13 +185)	IP65
	EM58 EC - HS58 EC HM58 EC Standard & high resolution encoders with EtherCAT interface.	58	● 12 ○ 15	6000	-	•	13 x 14 18 16 x 14					•			-25 +85 (-13 +185)	IP65
	EM58 PL - HS58 PL HM58 PL Standard & high resolution encoders with Powerlink interface.	58	● 12 ○ 15	6000	-	•	13 x 14 18 16 x 14							•	-25 +85 (-13 +185)	IP65







ROTAPULS encoders for motor feedback applications



		Housing ø (mm)	Shaft max. ø (mm)	Shaft rotational speed max. (rpm)	Resolution max. (PPR)	NPN	PNP	1Vpp	Push-Pull	Line Driver	Universal circuit	Operating temperature °C (°F) min. - max.	Protection max.
	C50 Compact & reliable through hollow shaft encoder. High operating temperature.	50	○ 10	6000	8192	•	•					-40 +100 (-40 +212)	IP65
	CB50 Encoder with U/V/W commutation signals.	50	○ 10	6000	2500/ 8 poles				•	•		-20 +100 (-4 +212)	IP20
	CB59 - CB60 Sine/Cosine encoder with absolute C-D track. Hollow & taper shaft.	58	● 1:10 ○ 15	12000	2048/ 1 sin/cos			•				-20 +100 (-4 +212)	IP40
	C80 Through hollow shaft for lift motors.	80	○ 30	6000	4096				•	•	•	-40 +100 (-40 +212)	IP65
	C81 Robust through hollow shaft encoder.	80	○ 44	3000	4096			•	•	•	•	-40 +100 (-40 +212)	IP65
	C82 Through hollow shaft for lift motors.	80	○ 44	3000	8192				•	•	•	-40 +100 (-40 +212)	IP65
	SMG Gearwheel encoder for high speed spindle motors.	-	-	50000	>25000			•		•		-25 +85	IP68

ROTAPULS • ROTACOD encoders with ATEX certification

lika		Housing ø (mm)	Shaft max. ø (mm)	Shaft rotational speed max. (rpm)	Resolution max. (PPR or Bit)	NPN / Push-Pull	SSI	BISS	Profibus-DP / CANopen	Add. incremental track	Analogue output	Operating temp. °C (°F) max.	Protection max.
	XC77 Incremental ATEX encoder. Ex II 2 GD, Ex d IIC T6 Gb, Ex tb IIIC T85°C Db. Zone 1, 2, 21, 22.	77	○ 14	6000	10000	•						-25 +85 (-13 +185)	IP66
	XAC77 Absolute ATEX encoder. Ex II 2 GD, Ex d IIC T6 Gb, Ex tb IIIC T85°C Db. Zone 1, 2, 21, 22.	77	○ 14	6000	18 16 x 14	•	•	•		•	•	-25 +85 (-13 +185)	IP65
	I58 - CK58 Incremental ATEX encoder. Ex II 3G Ex nA IIB T4 Gc, Ex II 3D Ex tc IIIC T105° Dc. Zone 2, 22.	58	● 12 ○ 15	12000 6000	10000	•						-40 +100 (-40 +212)	IP65
	XAC77 PB - CB Profibus Et CANopen ATEX encoder. Point-to-point communication.	77	○ 14	6000	18 16 x 14				•			-25 +85 (-13 +185)	IP66

ROTAPULS • ROTACOD Accessories



Flexible couplings

Complete range of encoder and transmission couplings

- Flexible or rigid
- Zero-backlash
- Electrically insulated
- Vibration absorbing
- High torque Et stiffness versions
- Grub screw or collar fixing
- Versions with keyway
- Stainless steel versions

Mounting and Connection accessories

Mounting accessories for encoders and electrical connections

- Spring loaded brackets
- Mounting bells and adapter flanges
- Fixing clamps, Reducing sleeves
- Connectors
- Cordets



Metric wheels and Gears






Metric wheels with 200 and 500 mm circumference

- Aluminum or Rubber surface
- Metric wheel encoders (IR65 series on request)
- Rack and pinions (for ICS series)



ROTAPULS • ROTACOD heavy-duty encoders & with stainless-steel housing



		Housing ø (mm)	Shaft max. ø (mm)	Shaft rotational speed max. (rpm)	Resolution max. (PPR or Bit)	NPN / PNP	1Vpp	Universal circuit	Push-Pull	Line Driver	SSI	CANopen	Profibus-DP	DeviceNet	Analogue output	Operating temperature °C (°F) min. - max.	Protection max.
	I58SK Industrial stainless steel incremental encoder. Food industry.	58	● 12	12000	10000	•	•	•	•	•						-40 +100 (-40 +212)	IP65
	MI36K - MC36K Compact magnetic encoder in stainless steel. Food industry.	36	● 6	12000	2048	•			•	•						-25 +85 (-13 +185)	IP67
	C100 - C101 Hollow shaft feedback encoder. Single & redundant version. Windturbines.	100	○ 1 : 17 ○ 16	6000	2500 2048			•	•	•						-40 +100 (-40 +212)	IP65
	I115 - I116 Solid shaft feedback encoder. Single & redundant version. Windturbines, Steelmills.	115	● 11	6000	5000	•		•	•	•						-40 +100 (-40 +212)	IP66
	ICS Spring-loaded movable shaft for linear measurements with pinions & gears.	172x80 x53	● 12	6000	2500	•		•	•	•						-25 +85 (-13 +185)	IP65
	AM58 K Absolute stainless steel encoder. Profibus & CANopen interfaces. Food industry.	58	● 12	6000	13 x 12							•	•			-25 +85 (-13 +185)	IP67
	MH58S Robust absolute encoder. Windturbines, Mobile equipment, Steelmills.	58	● 10	6000	12 x 12						•				•	-40 +85 (-13 +185)	IP67
	XAC77 FB Absolute fieldbus hollow shaft encoder with connection cap.	77	○ 14	6000	18 16 x 14							•	•	•		-25 +85 (-13 +185)	IP66

ROTAPULS • ROTACOD specialty encoders & OEM versions



		Housing \varnothing (mm)	Shaft max. \varnothing (mm)	Shaft rotational speed max. (rpm)	Resolution max. (PPR or Bit)	NPN	PNP	1 Vpp	Push-Pull	Line Driver	Universal circuit	Analogue output	Operating temperature $^{\circ}\text{C}$ (°F)min. - max.	Protection max.
	I70 Pulley encoder for timing belt systems.	54	-	3600	500				•				-20 +85 (-4 +185)	IP65
	CH59 Ultra high resolution incremental encoder. Flat design, through hollow shaft.	58	\varnothing 12	6000	204800					•			-25 +85 (-13 +185)	IP42
	IR01 Wheel-encoder with mounting kit. Linear & conveyor belt measurements.	-	-	3000	2500				•	•	•		-25 +85 (-13 +185)	IP65
	I105 High resolution non-interpolated incremental encoder.	105	● 10	6000	18000				•	•	•		-25 +85 (-13 +185)	IP65
	ASR58 - AMR58 Absolute encoder with integrated cam switch programmer. Packaging machines.	58	● 12	6000	12 12 x 18		•					•	-25 +85 (-13 +185)	IP65
	IT68 Incremental encoder for tool machines.	65	● 15	6000	10000	•	•		•	•	•		-40 +100 (-40 +212)	IP66

ROTAPULS • ROTACOD bearingless encoder



		Housing ø (mm)	Shaft max. ø (mm)	Shaft rotational speed max. (rpm)	Connection		Resolution max. (PPR or Bit)	Power supply (Vdc)	NPN	PNP	1Vpp	Push-Pull	Line Driver	SSI	Operating temperature °C (°F) min. - max.	Protection max.
					connector	cable										
	IM30 - IM31 - IM56 Incremental encoder module for motor feedback.	30÷56	Ø 8	3000	•		2048	+5	•						-40 +85 (-40 +185)	IP20
	MIK36 Shaftless incremental encoder. Waterproof design.	36	Ø 10	30000		•	2048	+5 +10 +30	•			•	•		-25 +85 (-13 +185)	IP68
	SGSM - SGSD Magnetic ring encoder. Single & redundant version.	-	Ø 50	6000		•	1024	+5 +10 +30				•	•		-40 +85 (-40 +185)	IP68
	SMG Bearingless feedback encoder for spindle motors.	-	Ø 100	50000	•	•	>25000	+5			•		•		-25 +85 (-13 +185)	IP68
	SMRI Incremental ring encoder. Several ring sizes available.	-	Ø 250	25000	•	•	90000	+5 +10 +30				•	•		-25 +85 (-13 +185)	IP68
	SGHM Incremental ring encoder for integration into gearmotors.	-	Ø 50	12000	•		16384	+5 +10 +30				•	•		-25 +85 (-13 +185)	IP65
	MSK36 - MMK36 Shaftless absolute encoder. Single & multiturn. Waterproof design.	36	Ø 10	12000	•	•	13 12 x 16	+5 +10 +30						•	-25 +85 (-13 +185)	IP68
	SMRA Absolute bearingless ring encoder.	-	Ø 380	15000	•	•	14	+10 +30						•	-25 +85 (-13 +185)	IP68
	SMLA Sensor for absolute measuring of curved axes up to 360°.	-	-	15000		•	14	+10 +30						•	-25 +85 (-13 +185)	IP68
	SMR5H Sensor for incremental measuring of internal curved axes.	-	-	25000		•	5 µm	+5 +10 +30				•	•		-25 +85 (-13 +185)	IP67

DRAW WIRE incremental & absolute wire encoders



		Measurement length max. (mm)	Stroke per turn (mm)	Measuring speed max. (m/sec)	Sensor		Potentiometer Analogue	Incremental encoder	Absolute encoder	Fieldbus encoder	Atex encoder
					integrated	external					
	SFP Compact wire-potentiometer with ohmic or analogue output.	2000	100	2	•		•				
	SFE Compact wire-encoder with incremental output.	2000	100	2	•			•			
	SFE-5000, SFE-10000 Programmable incremental wire-encoder, 5 & 10m length.	10000	200		•			•			
	SFA Compact wire-encoder with absolute output.	2000	100	2	•				•		
	SFA-5000, SFA-10000 Absolute wire-encoder, 5 & 10m length	10000	200		•				•		
	SFA-5000 TA, SFA-10000 TA Wire-encoder with analogue output & teach-in buttons. 5 & 10m length.	10000	200		•		•				
	SF-I, SF-A Draw-wire units for incremental & absolute encoders, 5 & 6,8m length.	6800	200 204,8	2,5		•	•	•	•	•	
	SAK-10000, SAK-15000 SBK-20000, SBK-30000 SBK-40000, SBK-50000 Robust draw-wire units with reinforced winding mechanism.	50000	500	10		•	•	•	•	•	•




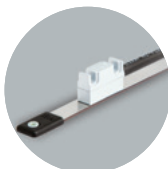






LINEPULS incremental linear encoders for position measurements



		Dimensions (mm)	Connection		Resolution max. (µm)	Travel speed max. (m/s)	Push-Pull	Line Driver	1Vpp	Reference	Limit switches	Power supply (Vdc)	Operating temperature °C (°F) min. - max.	Protection max.
			connector	cable										
	SME51 Linear encoder for position measurement with up to 2 mm gap.	40 x 25 x 10	•	•	5	16	•	•		•		+5 +10 +30	-25 +85 (-13 +185)	IP67
	SME52 Version with integrated reference and limit switches.	40 x 25 x 10		•	5	16	•	•		•	•	+5 +10 +30	-25 +85 (-13 +185)	IP67
	SME21 Linear encoder for position measurement with up to 1 mm gap.	40 x 25 x 10	•	•	1	16	•	•		•		+5 +10 +30	-25 +85 (-13 +185)	IP67
	SME22 Version with integrated reference and limit switches.	40 x 25 x 10		•	1	16	•	•		•	•	+5 +10 +30	-25 +85 (-13 +185)	IP67
	SMP Encoder with lateral sensing for linear guides.	40 x 20 x 10	•	•	12,5	16	•	•				+5 +10 +30	-25 +85 (-13 +185)	IP67
	SMB2 - SMB5 Miniature sensing head with external signal converter.	25 x 15 x 8,5		•	50	16	•	•				+5 +10 +30	-25 +85 (-13 +185)	IP68
	SMK - SML - SMH Robust sensors for standard application.	40 x 25 x 10		•	10 100	2,5 10	•	•				+5 +10 +30	-25 +85 (-13 +185)	IP67
	SMIG Guided incremental sensor.	80 x 48 x 28	•	•	5	1	•	•				+5 +10 +30	-25 +85 (-13 +185)	IP67
	SMX2 - SMX5 Incremental speed & position sensor for rings & tapes.	M10 x 30		•	5 mm (1.25) 2 mm (0.5)	30 (7,5 kHz)	•	•				+5 +30	-10 +70 (+14 +158)	IP67

LINEPULS • LINECOD incremental & absolute linear encoders for motion control



		Dimensions (mm)	Connection		Resolution max. (µm)	Travel speed max. (m/s)	SSI	BiSS	Push-Pull	Line Driver	1Vpp	Reference	Limit switches	Power supply (Vdc)	Operating temperature °C (°F) min. - max.	Protection max.
			connector	cable												
	SMI2 - SMI5 Encoder with resolution selector & dynamic signal calibration.	25 x 15 x 8,5	•		50	16			•	•				+5 +10 +30	-25 +85 (-13 +185)	IP68
	SMS11 Sine/cosine encoder for linear motors.	40 x 25 x 10	•	•	1000	16					•	•		+5	-25 +85 (-13 +185)	IP67
	SMS12 Version with integrated reference & limit switches.	40 x 25 x 10	•	•	1000	16					•	•	•	+5	-25 +85 (-13 +185)	IP67
	SMSR Miniature sine/cosine sensor for linear motors & pick-place applications.	25 x 15 x 8,5	•	•	1000	10					•			+5	-25 +85 (-13 +185)	IP68
	SME11 High performance encoder for linear motors.	40 x 25 x 10	•	•	0,5	16			•	•		•		+5 +10 +30	-25 +85 (-13 +185)	IP67
	SME12 Version with integrated reference & limit switches.	40 x 25 x 10	•	•	0,5	16			•	•		•	•	+5 +10 +30	-25 +85 (-13 +185)	IP67
	SMA1  Absolute encoder with additional sine/cosine output.	85 x 21 x 20		•	5	5	•	•						+10 +30	-25 +85 (-13 +185)	IP67
	SMA2  High performance absolute encoder with additional incremental track.	62 x 25 x 14	•	•	1	10	•	•						+10 +30	-25 +85 (-13 +185)	IP67

LINECOD absolute linear encoders for position measurements



		Dimensions (mm)	Connection		Resolution max. (µm)	Measurement length max. (mm)	SSI	BiSS	Modbus RS485	Profibus	CANopen / CANlift	Analogue	Power supply (Vdc)	Operating temp. °C (°F) min. - max.	Protection max.
			connector	cable											
	SMA5 Standard encoder for position measurement.	65 x 20 x 20	•	•	5	5,1	•						+10 +30	-25 +85 (-13 +185)	IP67
	SMA2  High performance absolute encoder with additional incremental track.	62 x 25 x 14	•	•	1	8,2	•	•					+10 +30	-25 +85 (-13 +185)	IP67
	SMAG Guided encoder for linear positioning.	80 x 48 x 28	•	•	5	0,6	•				•		+10 +30	-25 +85 (-13 +185)	IP65
	SMAX Low-cost encoder with programmable resolution.	80 x 40 x 22	•	•	100	0,6	•	•			•		+10 +30	-25 +85 (-13 +185)	IP68
	SMAZ Low-cost encoder with programmable resolution.	80 x 40 x 22	•	•	100	1,2	•	•			•		+10 +30	-25 +85 (-13 +185)	IP69K

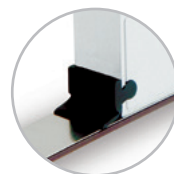
LINEPULS • LINECOD Accessories



Standard incremental magnetic tapes **MT50, MT40, MT32, MT25, MT20 and MT10** are available up to 100 m length. Versions with reduced width **MTS50 and MTS20**, available up to 30 m. Standard absolute magnetic tapes **MTA5, MTA2, MTA1, MTAL, MTAX and MTAZ** are available up to max. 8,1 m length.








Tape terminals for incremental and absolute tapes.
(Terminals included with tape rolls. Additional terminals may be ordered separately).



KIT LKM-1440 for 10 mm width tapes, series MTxx and MTA2.
KIT LKM-1439 for 20 mm width tapes series MTAX (excluding MTA2).
(Each KIT contains 10 terminals with mounting screws).

DRIVECOD rotary actuators for format adjustment



		Dimensions (mm)	Hollow shaft ø (mm)	Shaft rotational speed max. (rpm)	Nominal torque (Nm)	Max. torque (Nm)	Motor brake	Power supply (Vdc)	RS232 service Modbus	CANopen	Profibus	Modbus RS485	EtherCAT	Operating temperature °C (°F) min. - max.	Protection max.
	RD1A Rotary actuator with absolute multiturn encoder & jog buttons.	59 x 112 x 125	14	240 120 60	1,2 2,4 5	3 6 12		24	•	•	•	•	•	0 +60 (32 +140)	IP65
	RD12A Version with integrated motor brake.	59 x 142 x 125	14	240 120 60	1,2 2,4 5	3 6 12	•	24	•	•	•	•		0 +60 (32 +140)	IP65
	RD5 Compact actuator with absolute multiturn encoder.	48,3 x 88 x 127	14	60	5	12		24		•	•	•		0 +60 (32 +140)	IP54
	RD53 Version with integrated motor brake.	48,3 x 88 x 139	14	60	5	12	•	24		•	•	•		0 +60 (32 +140)	IP54
	RD4 High torque rotary actuator with absolute encoder.	65 x 153 x 160	20	94 62	10 15	20 30		24		•	•	•		0 +60 (32 +140)	IP65








LDT10 Touch screen controller for rotary actuators





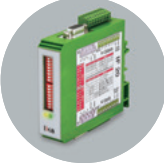








Description	Master controller for up to 16 RD units with Modbus interface.
Screen	TFT LCD 7.0 inch, touchscreen.
General specs	Dimension 205 x 151 x 33 mm. Power supply 24 Vdc, 15W. Full parameter setting and command of RD units. Editing & storage of recipes. Cordsets & connection cables to RD units available.

POSICONTROL multifunction displays for incremental & absolute encoders



	Display	Display mode			Dimensions (mm)	Input				Counting frequency max. (kHz)	Interface RS232 / RS485	Power supply	Output max.	
		linear	angular	mm/inch		ABO	SSI	1Vpp	Magnetic sensor					
	LD120 Compact LED position display for SMx magnetic sensors.	LED 5 digit	•	•	•	72 x 36 x 62				•	-	•	+10 +30	-
	LD112 Compact LCD battery powered position display with SM25 sensor.	LCD 6 digit	•	•	•	72 x 48 x 31				•	-		battery	-
	LD111 - LD141 Version without housing for OEM applications.	LCD 6 digit	•	•	•	61 x 39 x 23 87 x 60,5 x 47				•	-		battery	-
	LD140 - LD142 Standard LCD battery display for SM25 sensors. LD142 directly connected sensor.	LCD 6 digit	•	•	•	96 x 72 x 47				•	-	•	battery	-
	LD200 Universal LED display with multiple encoder input.	LED 8 digit	•	•	•	96 x 48 x 49	•	•	•	•	500	•	24 Vdc	3 x 24V @ 23mA
	LD250 Multifunction LED display for absolute encoders.	LED 6 digit	•		•	96 x 48 x 141		•			-	•	24 Vdc 115/230 Vac	0/4 - 20mA 0...±10Vdc
	LD300 Multifunction LED display for incremental encoders.	LED 6 digit	•		•	96 x 48 x 141	•				100	•	24 Vdc 115/230 Vac	0/4 - 20mA 0...±10Vdc

POSICONTROL interfaces, gateways & signal converters

		Description	Input	Output	Service interface	Functions
	IF10	Universal incremental encoder signal splitter, converter & cross switch. DIN rail mounting.	2 inputs HTL or TTL / RS422	2 outputs HTL or TTL / RS422		Adjustable inputs and outputs signal levels (can be mixed) Contactless switch-over Up to 1 MHz input frequency
	IF20	Signal level converter for incremental encoder. DIN rail mounting.	HTL or TTL / RS422	HTL or TTL / RS422		Output voltage according to remote voltage Input/Output galvanically separated AB quadrature to UP/DOWN conversion
	IF30	Sine/Cosine signal interpolator. DIN rail mounting.	1Vpp	HTL (ABO) or RS422 (ABO /ABO)		Adjustable interpolation rate up to x50 Adjustable pulse divider Filtering functions
	IF50	Incremental signal to Analogue converter and to RS232/RS485. DIN rail mounting.	HTL or TTL / RS422	± 10 V 0- 20 mA 4 - 20 mA	RS232 RS485	Signal linearization Scaling factor Teach-in function
	IF51	Absolute SSI to Analogue converter and to RS232/RS485. DIN rail mounting.	SSI (up to 25 bit)	± 10 V 0- 20 mA 4 - 20 mA	RS232 RS485	Bit blanking function Signal linearization Scaling factor
	IF52	Absolute SSI to Bit parallel converter and to RS232. DIN rail mounting.	SSI (up to 25 bit)	Push-Pull	RS232	Signal linearization Scaling factor
	IF55	Robust gateway for linear and rotary encoders. From SSI to EtherCAT, Profibus, CANopen.	SSI (up to 25 bit)	EtherCAT Profibus CANopen		Scaling factor Velocity output
	IFS10	 Safety monitor for speed, standstill and counting direction.	1Vpp, RS422 HTL	Secure relay 4 - 20 mA	RS232 USB	Integrated splitter function 4 redundant outputs Upper & lower speed limits Pre alarm function
	IF60 - IF61 IF62 - IF63	Fibre-optic signal converters for incremental and absolute encoders. IF60/IF62 transmitter. IF61/IF63 receiver.	HTL or TTL / RS422 SSI	Optical signal		Safe signal transmission up to 1500 m Suitable for explosive areas and environments with extremely high electromagnetic fields

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