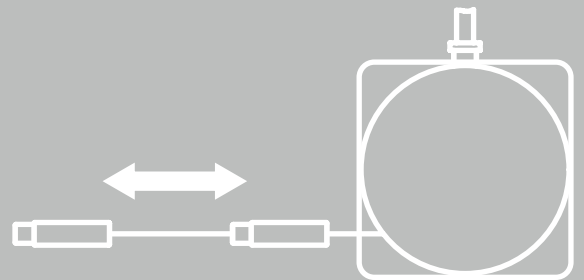
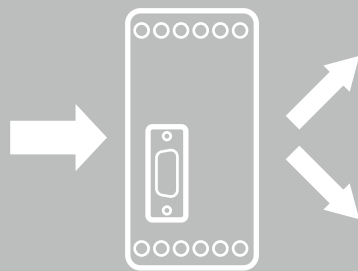
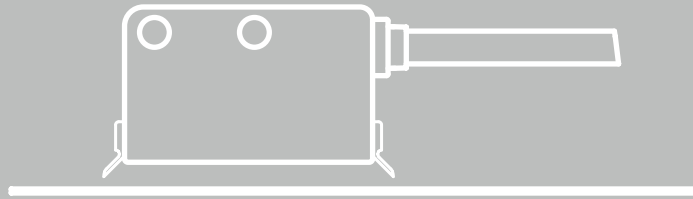
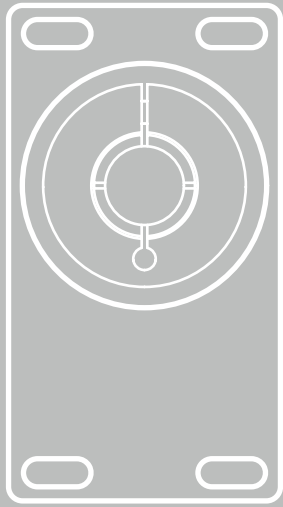
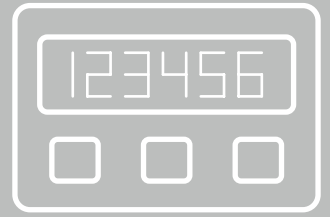
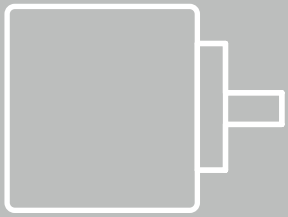




**30 YEARS
YOUNG**
1982.2012

..... **lika**[®]
Smart encoders & actuators



General catalogue 2014



2014

Product news calendar

Gennaio | January

C50 Easy & precise mounting with tapered shaft C50 for motor applications



CK61 Integrated stator coupling on CK61 hollow shaft encoder

Febbraio | February

SGHM Heavy-duty bearingless encoder for gearmotors



MM36 Ø36mm absolute encoder with extended resolution of 8192 cpr x 65536 turns

Marzo | March

RD53 Rotary actuator for quick change-over applications Integrated brake & Profibus, CANopen, Modbus RTU interfaces



MC4

Bologna 18.03.2014

Aprile | April

SME Diagnostic output on SME magnetic sensors for gap & speed errors



Hannover Messe
Hannover 07-11.04.2014

HALL 9 • BOOTH G76

Maggio | May

MS40 Compact & low-cost absolute encoder with bit parallel output, 256 cpr



sps ipc drives
ITALIA

Electric Automation
Systems and Components
Trade Fair and Conference
Parma, 20-22 May 2014



SPS IPC DRIVES Italia
Parma 20-22.05.14

HALL 2 • BOOTH I001

Giugno | June

CB59/CB60 High accuracy sine/cosine output signals on CB59 & CB60 for motor feedback applications



EtherCAT

IF55 SSI to EtherCAT converter for linear and rotary encoders



Luglio | July

CH59 Optical high resolution encoder with up to 204800 PPR. Flat design & through hollow shaft for electromedical & analysis equipment



SMR12 Bearingless encoder with IP68 for torque motors and applications in harsh environment

Agosto | August

LDT10 Touchscreen for quick change-over and direct connection to RD rotary actuators



Settembre | September

IF55 SSI to Profibus-DP converter for linear and rotary encoders



SFP

Draw-wire unit for linear measurements up to 2000 mm with analogue output 4-20mA & 0-10V



Ottobre | October

MMK36 Worlds smallest multiturn encoder with bearingless shaft and IP68 protection



MS40 Compact & low-cost singleturn encoder with analog outputs: 4-20mA & 0-10V

Novembre | November

ASM36 Compact 17 bit encoder module for integration into servomotors



sps ipc drives

Electric Automation
Systems and Components
International Exhibition and Conference
Nürnberg, Germany, 25-27 November 2014



SSI
BISS
INTERFACE



SPS IPC DRIVES
Norimberga 25-27.11.14

Dicembre | December

IF55 SSI to CANopen converter for linear and rotary encoders



SMAG Guided linear encoder with CANopen interface for low-cost applications



30 YEARS
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Smart encoders & actuators



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.

1991
Foundation of Lika
Trading commercial
corporate.

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 world-wide.

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 committed 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.

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>1998 First 16-bit resolution single-turn absolute encoder engineered for installation in aerostatic probes developed by Florence University.</p>	<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 with a series of special events.</p>	<p>2012 30th anniversary: "30 new products for our 30 years" event launched.</p>
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<p>1999 Lika Electronic moves its corporate headquarters to Carré (VI) establishing in new larger production and office premises.</p>	<p>2001 Foundation of Lika subsidiary in Germany.</p>	<p>2004 Ariane 5 rocket successfully launched: Rosetta probe fits Lika encoders.</p>	<p>2008 ALMA project: giant array of 12-m radio telescopes equipped with special custom-made Lika encoders.</p>	<p>2010 Lika introduces the innovative range of heavy-duty products dedicated to steel & iron industry and wind mills.</p>
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ROTAPULS incremental encoders

		Housing ϕ (mm)	Shaft max. ϕ (mm)	Shaft rotational speed max. (rpm)	Connection		Resolution max. (PPR)	Output frequency max. (kHz)	Power supply (Vdc)	NPN	PNP	1Vpp	Push-Pull	Line Driver	Universal circuit	Operating temp. °C (°F) min. – max.	Protection max.
					connector	cable											
	I28 Optical miniature encoder Light-duty	28	● 5	3000	•		1024	100	+5 +10 +30 +5 +30	•			•	•	•	-20 +70 (-4 +158)	IP54
	MI36 - MC36 Magnetic encoders, compact Light-duty	36	● 6 ○ 6	12000	•		2048	300	+5 +10 +30	•			•	•		-25 +85 (-13 +185)	IP67
	MI36K - MC36K Magnetic encoders Stainless steel version Food industry Light-duty Food	36	● 6	12000	•		2048	300	+5 +10 +30	•			•	•		-25 +85 (-13 +185)	IP67
	I40 - I41 Optical encoders, compact Light-duty	40	● 8	6000	•		5000	100	+5 +10 +30 +5 +30	•	•		•	•	•	-25 +85 (-13 +185)	IP66
	CK41 - CK46 Optical encoder, compact Light-duty	41 46	○ 6	6000	•		5000	100	+5 +10 +30 +5 +30	•	•		•	•	•	-25 +85 (-13 +185)	IP65
	C50 - C51 Optical encoder High temperature Industrial / Feedback	50	○ 10	6000 3000	•		2048 2500	100	+5 +10 +30 +5 +30	•			•	•	•	-40 +100 (-40 +212) -25 +85 (-13 +185)	IP65
	CB50 Optical encoder for servo motors UVW signals Feedback	50	○ 10	6000	•		2500/ 8 poles	200	+5 +10 +30				•	•		-20 +100 (-4 +212)	IP20
	I58 - I58S Optical standard encoders Industrial	58	● 12	12000	•	•	10000	300	+5 +10 +30 +5 +30	•	•	•	•	•	•	-40 +100 (-40 +212)	IP65
	I58SK Optical encoder Stainless steel version Food industry Industrial Food	58	● 12	12000	•	•	10000	300	+5 +10 +30 +5 +30	•	•	•	•	•	•	-40 +100 (-40 +212)	IP66

ROTAPULS incremental encoders

		Housing ϕ (mm)	Shaft max. ϕ (mm)	Shaft rotational speed max. (rpm)	Connection		Resolution max. (PPR)	Output frequency max. (kHz)	Power supply (Vdc)	NPN	PNP	1 Vpp	Push-Pull	Line Driver	Universal circuit	Operating temp. °C (°F) min. - max.	Protection max.
					connector	cable											
	IP58 - CKP58 Programmable encoder Industrial	58	● 12 ○ 15	12000	•	•	65536	1000	+5 +30				•	•	•	-40 +100 (-40 +212)	IP65
	C58 - C59 - C60 Optical standard encoders Through hollow shaft Industrial	58	○ 15	6000	•	•	5000	100	+5 +10 +30 +5 +30				•	•	•	-40 +100 (-40 +212)	IP65
	C58A - C58R Optical standard encoders Through hollow shaft Industrial / Feedback	58	○ 15	6000	•	•	5000	100	+5 +10 +30 +5 +30				•	•	•	-40 +100 (-40 +212)	IP65
	CK58 - CK59 - CK60 Optical standard encoders Blind hollow shaft Industrial	58	○ 15	6000	•	•	10000	300	+5 +10 +30 +5 +30	•	•	•	•	•	•	-40 +100 (-40 +212)	IP65
	CB59 - CB60 Optical encoders for servo motors Sine/cosine Feedback / Lift	58	● 1:10 ○ 15	12000	•	•	2048/ 1 sin/cos	300	+5			•				-20 +100 (-4 +212)	IP40
	MI58 - MI58S Magnetic encoders Sealed circuits Industrial	58	● 12	12000	•	•	10000	500	+5 +10 +30 +5 +30				•	•	•	-25 +85 (-13 +185)	IP67
	MC58 - MC59 - MC60 Magnetic encoders Sealed circuits Through hollow shaft Industrial	58	○ 15	6000	•	•	10000	500	+5 +10 +30 +5 +30				•	•	•	-25 +85 (-13 +185)	IP67
	I65 - IT65 Optical encoders Square flange, US size Industrial	65	● 12	6000	•	•	10000	300	+5 +10 +30 +5 +30	•	•		•	•	•	-40 +100 (-40 +212)	IP66
	IT68 Optical encoder Industrial	65	● 15	6000	•	•	10000	100	+5 +10 +30 +5 +30	•	•		•	•	•	-40 +100 (-40 +212)	IP66











ROTAPULS incremental encoders

		Housing ϕ (mm)	Shaft max. ϕ (mm)	Shaft rotational speed max. (rpm)	Connection		Resolution max. (PPR)	Output frequency max. (kHz)	Power supply (Vdc)	NPN	PNP	1Vpp	Push-Pull	Line Driver	Universal circuit	Operating temp. °C (°F) min. - max.	Protection max.
					connector	cable											
	XC77 Optical encoder ATEX II 2GD Ex d IIC T6 Areas 1, 2, 21, 22 Heavy-duty	77	○ 14	6000	•		10000	300	+5 +10 +30 +5 +30	•			•	•	•	-25 +85 (-13 +185)	IP66
	C80 Optical encoders for lift motors Feedback / Lift	80	○ 30	6000	•	•	4096	100	+5 +10 +30 +5 +30				•	•	•	-40 +100 (-40 +212)	IP65
	C81 Optical encoders Through hollow shaft Heavy-duty Feedback	80	○ 44	3000		•	4096	200	+5 +10 +30 +5 +30			•	•	•	•	-40 +100 (-40 +212)	IP65
	C82 Optical encoders for lift motors Feedback / Lift	80	○ 44	3000	•	•	8192	200	+5 +10 +30 +5 +30				•	•	•	-40 +100 (-40 +212)	IP65
	I115 - I116 Optical encoders Redundant version (I116) Heavy-duty / Wind	115	● 11	6000	•		5000	100	+5 +10 +30 +5 +30	•	•		•	•	•	-40 +100 (-40 +212)	IP66
	C100 - C101 Optical encoder for wind generator applications Redundant version (C101) Heavy-duty / Wind	100	○ 1:17 ○ 16	6000	•	•	2500 2048	100	+5 +10 +30 +5 +30				•	•	•	-40 +100 (-40 +212)	IP65
	I70 Belt pulley with integrated encoder Heavy-duty	54	-	3600		•	500	30	+10 +30				•			-20 +85 (-4 +185)	IP65
	ICS Optical encoder Spring loaded shaft Heavy-duty	172x80 x53	● 12	6000	•		2500	60	+5 +10 +30 +5 +30	•	•		•	•	•	-25 +85 (-13 +185)	IP65
	I105 Optical encoder High resolution Industrial	105	● 10	6000	•	•	18000	300	+5 +10 +30 +5 +30				•	•	•	-25 +85 (-13 +185)	IP65





ROTACOD absolute encoders

		Housing ϕ (mm)	Shaft max. ϕ (mm)	Shaft rotational speed max. (rpm)	Connection		Resolution max. (bits)	Power supply (Vdc)	NPN / Push-Pull	SSI	BISS	Modbus / RS485	Add. incremental track	Analogue output	Operating temp. °C (°F) min. - max.	Protection max.
					connector	cable										
	MS36 - MSC36 Magnetic encoders Compact, singleturn Light-duty	36	● 6 ○ 6	12000		•	13	+10 +30		•					-20 +85 (-4 +185)	IP67
	MM36 - MMC36 Magnetic encoders Compact, multiturn Light-duty	36	● 6 ○ 6	12000		•	12 x 16	+10 +30		•					-20 +85 (-4 +185)	IP67
	AS36 - ASC36 Optical encoder Compact, singleturn High resolution Industrial / Feedback	36	● 6 ○ 6	6000		•	20	+10 +30		•	•				-40 +100 (-40 +212)	IP65
	AM36 - AMC36 Optical encoder Compact, multiturn High resolution Industrial / Feedback	36	● 6 ○ 6	6000		•	20 x 16	+10 +30		•	•				-40 +100 (-40 +212)	IP65
	ES58 - ES58S - ESC58 Optical encoders Standard, singleturn Industrial	58	● 12 ○ 15	12000	•	•	13	+7,5 +34	•	•		•	•		-40 +100 (-40 +212)	IP67
	EM58 - EM58S - EMC58 Optical encoders Standard, multiturn Industrial	58	● 12 ○ 15	12000	•	•	13 x 14	+7,5 +34	•	•		•	•		-40 +100 (-40 +212)	IP67
	HS58 - HS58S - HSC58 Optical singleturn encoders High resolution Industrial / Feedback	58	● 12 ○ 15	6000	•	•	19 + 2048	+10 +30		•	•		•		-40 +100 (-40 +212)	IP65
	HM58 - HM58S - HMC58 Optical multiturn encoders High resolution Industrial / Feedback	58	● 12 ○ 15	6000	•	•	16 x 14 + 2048	+10 +30		•	•		•		-40 +100 (-40 +212)	IP65
	HSCT - HMCT Optical singleturn and multiturn encoder Through hollow shaft Industrial / Feedback	58	○ 15	6000	•	•	18 16 x 12 + 2048	+10 +30		•	•		•		-25 +85 (-13 +185)	IP65





ROTACOD absolute encoders

		Housing ϕ (mm)	Shaft max. ϕ (mm)	Shaft rotational speed max. (rpm)	Connection		Resolution max. (bits)	Power supply (Vdc)	NPN / Push-Pull	SSI	BiSS	Modbus / RS485	Add. incremental track	Analogue output	Operating temp. °C (°F) (max.)	Protection max.
					connector	cable										
	AS58 - AS58S - ASC58 Optical singleturn encoders Industrial	58	● 12 ○ 15	6000	•	•	13	+10 +30	•	•					-40 +100 (-40 +212)	IP65
	AM58 - AM58S - AMC58 Optical multiturn encoders Industrial	58	● 12 ○ 15	6000	•	•	13 x 12	+10 +30	•	•					-40 +100 (-40 +212)	IP65
	MH58S Magnetic multiturn For wind generators, steel mills & mobile equipment Heavy-duty / Wind	58	● 10	6000	•		12 x 12	+10 +30		•				•	-40 +85 (-40 +185)	IP67
	MM58 - MM58S - MMC58 Magnetic multiturn encoders Industrial	58	● 12 ○ 15	12000		•	12 x 16	+10 +30		•					-20 +85 (-4 +185)	IP67
	HM58 P - HM58S P HMC58 P Optical multiturn encoders Programmable Industrial	58	● 12 ○ 15	6000	•	•	18 x 14	+10 +30	•	•					-40 +100 (-40 +212)	IP65
	EM58 TA Programmable encoder with analogue output Teach-in buttons Industrial	58	● 12 ○ 15	12000	•	•	12 x 14	+13 +30						•	-25 +85 (-13 +185)	IP67
	AS58 A - AM58 A Optical absolute encoders Analogue output Industrial	58	● 12 ○ 15	6000	•		12 12 x 4 9 x 6 6 x 8	+15 +30						•	-25 +85 (-13 +185)	IP65
	EM58 PA - EM58S PA EMC58 PA Optical multiturn encoder Programmable analogue output Industrial	58	● 12 ○ 15	6000	•		12 x 14	+15 +30						•	-25 +85 (-13 +185)	IP65
	ASR58 - AMR58 Optical singleturn and multiturn encoders Integrated cam switch programmer Industrial	58	● 12	6000	•		12 12 x 8	+10 +30	•					•	-25 +85 (-13 +185)	IP65







ROTACOD absolute encoders

		Housing \varnothing (mm)	Shaft max. \varnothing (mm)	Shaft rotational speed max. (rpm)	Connection		Resolution max. (Bit)	Power supply (Vdc)	NPN / Push-Pull	SSI	BISS	Modbus / RS485	Add. incremental track	Analogue output	Operating temp. °C (°F) (max.)	Protection max.
					connector	cable										
	AST6 - AMT6 Optical singleturn and multiturn encoder Square flange, US size Industrial	65	● 12	6000	•	•	13 13 x 14	+10 +30	•	•			•		-40 +100 (-40 +212)	IP66
		XAC77 Optical multiturn encoder ATEX II 2GD Ex d IIC T6 Areas 1, 2, 21, 22 Heavy-duty	77	○ 14	6000		•	18 16 x 14	+10 +30	•	•	•		•	•	-25 +85 (-13 +185)
	AM9 - AMC9 Optical multiturn encoders Flat design Industrial	88	● 10 ○ 15	6000	•		13 x 12	+10 +30		•					-40 +100 (-40 +212)	IP65

ROTACOD absolute encoders • Fieldbus

		Housing \varnothing (mm)	Shaft max. \varnothing (mm)	Shaft rotational speed max. (rpm)	Connection		Connection cap with PG	Connection cap with connectors	Resolution max. (bits)	Power supply (Vdc)	CANopen	CANopen LIFT	Profibus-DP	DeviceNet	EtherCAT	Operating temp. °C (°F) (max.)	Protection max.
					connector	cable											
	AS58 PB - AM58 PB Optical singleturn and multiturn encoders Profibus-DP interface Industrial	58	● 12 ○ 15	6000			•	•	13 13 x 12	+10 +30			•			-25 +85 (-13 +185)	IP65
		AS58 CB - AM58 CB Optical singleturn and multiturn encoders CANbus interface Industrial	58	● 12 ○ 15	6000			•	•	13 13 x 12	+10 +30	•	•				-25 +85 (-13 +185)
	HS58 FB - HM58 FB Optical singleturn & multiturn encoders Fieldbus, high resolution Industrial	58	● 12 ○ 15	6000			•	•	18 16 x 14	+10 +30	•	•	•	•		-25 +85 (-13 +185)	IP65

ROTACOD Absolute encoders • Fieldbus


	Housing ϕ (mm)	Shaft max. ϕ (mm)	Shaft rotational speed max. (rpm)	Connection		Connection cap with PG	Connection cap with connectors	Resolution max. (bits)	Power supply (Vdc)	CANopen / CANlift	Profibus-DP	DeviceNet	EtherCAT	Profinet	Operating temp. °C (°F) min. – max.	Protection max.
				connector	cable											
 <p>AM58 K Optical multiturn encoders Profibus, CANbus interface Stainless steel version</p> <p>Industrial / Food</p>	58	● 12	6000				•	13 x 12 +10 +30	•	•					-25 +85 (-13 +185)	IP65
 <p>ASx58x - AMx58x CANopen Direct connection Single & multiturn</p> <p>Industrial</p>	58	● 12 ○ 15	6000	•	•			18 16 x 14 +10 +30	•						-25 +85 (-13 +185)	IP65
 <p>EM58 EC - HS58 EC HM58 EC Optical multiturn encoders EtherCAT interface</p> <p>Industrial</p>	58	● 12 ○ 15	6000			-	•	13 x 14 18 16 x 14 +10 +30				•			-25 +85 (-13 +185)	IP65
 <p>EM58 PT - HS58 PT HM58 PT Optical multiturn encoders Profinet interface</p> <p>Industrial</p>	58	● 12 ○ 15	6000			-	•	13 x 14 18 16 x 14 +10 +30					•		-25 +85 (-13 +185)	IP65
 <p>XAC77 PB + CB ATEX multiturn encoder Profibus and CANbus interfaces (point to point)</p> <p>Heavy-duty</p>	77	○ 14	6000		•			18 16 x 14 +10 +30	•	•					-25 +85 (-13 +185)	IP66
 <p>XAC77 FB Absolute encoder Profibus, CANbus and DeviceNet interfaces</p> <p>Heavy-duty</p>	77	○ 14	6000			•	•	18 16 x 14 +10 +30	•	•	•				-25 +85 (-13 +185)	IP66



ROTAPULS • ROTACOD bearingless encoders

		Housing ø (mm)	Shaft max. ø (mm)	Shaft rotational speed max. (rpm)	Connection		Resolution max. (PPR)	Output frequency max. (kHz)	Power supply (Vdc)	NPN	PNP	1 Vpp	Push-Pull	Line Driver	SSI	Operating temp. °C (°F) min. – max.	Protection max.
					connector	cable											
	IM30 - IM31 - IM56 Encoder modules Light-duty Feedback	30÷56	Ø 8	3000	•		2048	100	+5	•						-40 +85 (-40 +185)	IP20
	MIK36 Shaftless incremental encoder Industrial Feedback	36	Ø 10	30000		•	2048	300	+5 +10 +30	•	•		•	•		-25 +85 (-13 +185)	IP68
	SGSM - SGSD Modular magnetic encoder Redundant (SGSD) Heavy-duty Feedback	-	Ø 50	6000		•	1024	100	+5 +10 +30				•	•		-40 +85 (-40 +185)	IP68
	SMG Incremental gear sensor Heavy-duty Feedback	-	Ø 100	50000	•	•	>25000	200	+5			•		•		-25 +85 (-13 +185)	IP68
	SMRI Incremental magnetic ring encoder Heavy-duty Feedback	-	Ø 250	25000	•	•	90000	2000	+5 +10 +30				•	•		-25 +85 (-13 +185)	IP67
	SGHM Magnetic encoder for gear motors Heavy-duty	-	Ø 50	12000	•		16384	2000	+5 +10 +30				•	•		-25 +85 (-13 +185)	IP65
	MSK36 Shaftless absolute singleturn encoder Industrial Feedback	36	Ø 10	12000	•	•	13 Bit	300	+5 +10 +30						•	-25 +85 (-13 +185)	IP68
	MMK36 Shaftless absolute multiturn encoder Industrial Feedback	36	Ø 10	12000	•	•	12 x 16 Bit	10	+5 +10 +30						•	-25 +85 (-13 +185)	IP68
	SMRA Absolute magnetic ring encoder Heavy-duty Feedback	-	Ø 380	6000	•	•	14 Bit	-	+10 +30						•	-25 +85 (-13 +185)	IP67

DRAW WIRE UNITS & Accessories

		Dimensions (mm)	Measurement length max. (mm)	Stroke per turn (mm)	Measuring speed max. (m/sec)	Sensor		Potentiometer	Incremental encoder	Absolute encoder	Fieldbus encoder	Atex encoder
						integrated	external					
	SFP Draw wire potentiometer Miniature Light-duty	56 x 55 x 79	2000	100	2	•		•				
	SFE Draw wire encoder Miniature Light-duty	56 x 55 x 64	2000	100	2	•			•			
	SFA Draw wire encoder Miniature Light-duty	56 x 56 x 79	2000	100	2	•				•		
	SFI - SFA Draw wire unit Standard version Industrial	125 x 83 x 58	6800	200 204,8	2,5				•	•	•	
	SAK-10000 SAK-15000 Draw wire unit Reinforced winding mechanism Industrial	233,5 x 128 x 135	15000	300	10				•	•	•	•
	SBK-20000, SBK-30000 SBK-40000, SBK-50000 Draw wire unit Reinforced winding mechanism Industrial	401 x 190 x 200	50000	500	10				•	•	•	•



Flexible couplings

Complete range of encoder and transmission couplings

Flexible or rigid
Zero-backlash
Electrically insulated
Vibration absorbing
High torque & 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)

LINEPULS incremental magnetic sensors

		Dimensions (mm)	Connection		Resolution max. (µm)	Travel speed max. (m/s)	Push-Pull	Line Driver	1Vpp	Reference	Limit switches	Power supply (Vdc)	Operating temp. °C (°F) min. - max.	Protection max.
			connector	cable										
	MT - MTS Magnetic tape Incremental coding	MT: 10 MTS: 5 x 100 m max.	-	-	-	-	-	-	-	-	-	-	-40 +120 (-40 +248)	IP67
	SME51 Magnetic sensor Status LED, wipers Industrial	40 x 25 x 10		•	5	16	•	•		•		+5 +10 +30	-25 +85 (-13 +185)	IP67
	SME52 Magnetic sensor Status LED, wipers Limit switches Industrial	40 x 25 x 10		•	5	16	•	•		•	•	+5 +10 +30	-25 +85 (-13 +185)	IP67
	SME21 Magnetic sensor Status LED, wipers Industrial / Feedback	40 x 25 x 10		•	1	16	•	•		•		+5 +10 +30	-25 +85 (-13 +185)	IP67
	SME22 Magnetic sensor Status LED, wipers Limit switches Industrial / Feedback	40 x 25 x 10		•	1	16	•	•		•	•	+5 +10 +30	-25 +85 (-13 +185)	IP67
	SME11 High performance sensor for linear motors Status LED, wipers Feedback	40 x 25 x 10		•	0,5	16	•	•		•		+5 +10 +30	-25 +85 (-13 +185)	IP67
	SME12 High performance sensor for linear motors Status LED, wipers Limit switches Feedback	40 x 25 x 10		•	0,5	16	•	•		•	•	+5 +10 +30	-25 +85 (-13 +185)	IP67
	SMS11 Magnetic sensor for linear motors Sine/cosine output Feedback	40 x 25 x 10		•	1000	16				•	•	+5	-25 +85 (-13 +185)	IP67
	SMS12 Magnetic sensor for linear motors Sine/cosine output Limit switches Feedback	40 x 25 x 10		•	1000	16				•	•	+5	-25 +85 (-13 +185)	IP67







LINEPULS incremental magnetic sensors

		Dimensions (mm)	Connection		Resolution max. (µm)	Travel speed max. (m/s)	Push-Pull	Line Driver	1Vpp	Reference	Limit switches	Power supply (Vdc)	Operating temp. °C (°F) min. - max.	Protection max.
			connector	cable										
	SMB2 - SMB5 Magnetic sensors External converter Industrial	25 x 15 x 8,5		•	50	16	•	•				+5 +10 +30	-25 +85 (-13 +185)	IP68
	SMI2 - SMI5 Linear incremental encoder with resolution selector Feedback	25 x 15 x 8,5	•		2	16	•	•				+5 +10 +30	-25 +85 (-13 +185)	IP68
	SMSR Miniature magnetic sensor for linear motors and pick & place applications Feedback	25 x 15 x 8,5		•	1000	10			•			+5	-25 +85 (-13 +185)	IP68
	SMX2 - SMX5 Magnetic speed sensors Heavy-duty	M10 x 30		•	5 mm (1.25) 2 mm (0.5)	30 (7,5 kHz)	•	•				+5 +30	-10 +70 (+14 +158)	IP67
	SMK Robust magnetic sensor for standard applications Heavy-duty	40 x 25 x 10		•	10	2,5	•	•				+5 +10 +30	-25 +85 (-13 +185)	IP67
	SML - SMH Robust magnetic sensors for standard applications Heavy-duty	40 x 25 x 10		•	100	10	•	•				+5 +10 +30	-25 +85 (-13 +185)	IP67
	SMIG Magnetic system with self-guiding sensor head Heavy-duty	80 x 48 x 28	•	•	5	1	•	•				+5 +10 +30	-25 +85 (-13 +185)	IP67

LINECOD absolute magnetic sensors

		Dimensions (mm)	Connection		Resolution max. (µm)	Measurement length max. (mm)	SSI	BiSS	RS485	Profibus	CANopen / CANlift	Analogue	Power supply (Vdc)	Operating temp. °C (°F) min. – max.	Protection max.
			connector	cable											
	MTA1-MTA5-MTA2 Magnetic tape Absolute coding	10 x Lm 20 x Lm	-	-	-	-	-	-	-	-	-	-	-	-40 +120 (-40 +248)	IP67
	SMA5 Compact magnetic sensor SSI interface Industrial	65 x 20 x 20	•	-	5	5,1	•	-	-	-	-	-	+10 +30	-25 +85 (-13 +185)	IP67
	SMA1 Compact magnetic sensor BiSS + sin/cos interface Feedback	85 x 21 x 20	•	-	5	5,1	•	•	-	-	-	-	+10 +30	-25 +85 (-13 +185)	IP67
	SMA2 Compact magnetic sensor with BiSS interface Feedback	62 x 25 x 14	•	-	1	8,2	•	•	-	-	-	-	+10 +30	-25 +85 (-13 +185)	IP67
	SMAG Magnetic system with self-guiding sensor head Heavy-duty	80 x 48 x 28	•	•	5	0,6	•	-	-	-	•	-	+10 +30	-25 +85 (-13 +185)	IP65
	SMAX - SMAZ Low cost magnetic sensor Heavy-duty	80 x 40 x 22	•	-	100	0,6 1,2	•	-	•	-	-	•	+10 +30	-25 +85 (-13 +185)	IP68 IP69K
	SMAL Magnetic sensor for long distances Elevators Industrial	190 x 52 x 45	•	•	1 mm	150	•	-	•	•	•	-	+10 +30	-25 +85 (-13 +185)	IP54
	SMAL2 Magnetic sensor for long distances Elevators Lift / Industrial	147 x 100 x 60	•	-	0,1 mm	150	•	-	•	-	•	-	+10 +30	-25 +85 (-13 +185)	IP54











DRIVECOD rotary actuators

		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	Operating temp. °C (°F) min. - max.	Protection max.
	RD1A Positioning unit with absolute encoder Brushless motor Diagnostic LEDs Industrial	59 x 112 x 125	14	240 120 60	1,2 2,4 5	3 6 12		24	•	•	•	•	0 +60 (32 +140)	IP65
	RD12A Positioning unit with absolute encoder Brushless motor Diagnostic LEDs Industrial	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 positioning unit with absolute encoder Brushless motor Industrial	48,3 x 88 x 127	14	60	5	12		24		•	•	•	0 +60 (32 +140)	IP54
	RD53 Compact positioning unit with absolute encoder Brushless motor Industrial	48,3 x 88 x 139	14	60	5	12	•	24		•	•	•	0 +60 (32 +140)	IP54
	RD4 Positioning unit with absolute encoder Brushless motor Heavy-duty	65 x 153 x 160	20	94 62	10 15	20 30		24		•	•	•	0 +60 (32 +140)	IP65

POSICONTROL displays & interfaces

	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 display for magnetic sensors	LED 5 digit	•	•	•	72 x 36 x 62					•	-	•	+10 +30	-
	Industrial														
	LD112 Compact LCD battery display	LCD 6 digit	•	•	•	72 x 48 x 31					•	-		battery	-
	Industrial														
	LD111 - LD141 Ultracompact OEM battery display	LCD 6 digit	•	•	•	61 x 39 x 23 87x60,5x47					•	-		battery	-
	Industrial														
	LD140 - LD142 Standard battery display	LCD 6 digit	•	•	•	96 x 72 x 47					•	-	•	battery	-
	Industrial														
	LD200 Universal position display	LED 8 digit	•	•	•	96 x 48 x 49	•	•	•	•	500	•	•	24 Vdc	3 x 24V @ 23mA
	Industrial														
	LD250 Absolute multi-function display	LED 6 digit	•		•	96 x 48 x 141						-	•	24 Vdc 115/230 Vac	0/4 - 20mA 0...±10Vdc
	Industrial														
	LD300 Incremental multi-function display	LED 6 digit	•		•	96 x 48 x 141	•					100	•	24 Vdc 115/230 Vac	0/4 - 20mA 0...±10Vdc
	Industrial														
	MC111- MC150 Position display for encoders Economic version (MC111)	LED 6 digit	•			96 x 72 x 60 96 x 72 x 71	•					25 1000		24 Vdc/Vac 115 Vac 230 Vac	2 x 24V @ 600mA
	Industrial														
	MC221 Compact 2 axes position display	2 x LED 6 digit	•			96 x 96 x 72	•					500		24 Vdc	2 x 24V @ 600mA
	Industrial														

POSICONTROL displays & interfaces

		Description	Input	Output	Service interface	Functions
	IF10 Industrial	Universal incremental encoder signal splitter, converter & switcher 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 Industrial	Signal 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 Industrial	Sine/Cosine signal interpolator DIN rail mounting	1Vpp	HTL (AB0) or RS422 (AB0 /AB0)		Adjustable interpolation rate up to x50 Adjustable pulse divider Filtering functions
	IF50 Industrial	Incremental signal to Analogue converter 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 Industrial	Absolute SSI to Analogue converter 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 Industrial	Absolute SSI to Bit parallel converter DIN rail mounting	SSI (up to 25 bit)	Push-Pull	RS232	Signal linearization Scaling factor
	IF55 Industrial	Gateway for Lika encoders From SSI to EtherCAT, Profibus, CANopen	SSI (up to 25 bit)	EtherCAT Profibus CANopen		Signal converter for linear and rotary Lika encoders, series: SMA5, SMAG, MM36
	IF60 - IF61 Heavy-duty	Fibre-optic signal converters for incremental encoders IF60 transmitter IF61 receiver	HTL or TTL / RS422	Optical signal		Safe signal transmission up to 1000 m Suitable for explosive areas and environments with extremely high electromagnetic fields
	IF62 - IF63 Heavy-duty	Fibre-optic signal converters for absolute encoders IF62 transmitter IF63 receiver	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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Smart encoders & actuators

Lika Electronic Srl
Via S. Lorenzo, 25
36010 Carré (VI) • Italy
Tel. +39 0445 806600
Fax +39 0445 806699
eMail info@lika.it
www.lika.biz



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