




















ROTAPULS incremental encoders

		Page	Housing \varnothing (mm)	Shaft max. \varnothing (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	64	28	● 5	3000	•		1024	100	+5 +10 +30 +5 +30	•			•	•	•	-20 +70 (-4 +158)	IP54
	Light-duty																	
	MI36 - MC36 Magnetic encoders, compact	66	36	● 6 ○ 6	12000	•		2048	300	+5 +10 +30	•			•	•		-25 +85 (-13 +185)	IP67
	Light-duty																	
	MI36K - MC36K Magnetic encoders Stainless steel version Food industry	68	36	● 6	12000	•		2048	300	+5 +10 +30	•			•	•		-25 +85 (-13 +185)	IP67
	Light-duty Food																	
	I40 - I41 Optical encoders, compact	70	40	● 8	6000	•		5000	100	+5 +10 +30 +5 +30	•	•		•	•	•	-25 +85 (-13 +185)	IP66
	Light-duty																	
	CK41 - CK46 Optical encoders, compact	72	41 46	○ 6	6000	•		5000	100	+5 +10 +30 +5 +30	•	•		•	•	•	-25 +85 (-13 +185)	IP65
	Light-duty																	
	C50 - C51 Optical encoders High temperature	74 76	50	○ 10	6000 3000	•		2048 2500	100	+5 +10 +30 +5 +30	•			•	•	•	-40 +100 (-40 +212) -25 +85 (-13 +185)	IP65
	Industrial / Feedback																	
	CB50 Optical encoder for servo motors UVW signals	78	50	○ 10	6000	•		2500/ 8 poles	200	+5 +10 +30				•	•		-20 +100 (-4 +212)	IP20
	Feedback																	
	I58 - I58S Optical standard encoders	80	58	● 12	12000	•	•	10000	300	+5 +10 +30 +5 +30	•	•	•	•	•	•	-40 +100 (-40 +212)	IP65
	Industrial																	
	I58SK Optical encoder Stainless steel version Food industry	82	58	● 12	12000	•	•	10000	300	+5 +10 +30 +5 +30	•	•	•	•	•	•	-40 +100 (-40 +212)	IP66
	Industrial Food																	

ROTAPULS incremental encoders

		Page	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	Universal circuit	Operating temp. °C (°F) min. – max.	Protection max.
						connector	cable											
	IP58 - CP58 Programmable encoder Industrial	84	58	● 12 ○ 15	12000	•	•	32768	1000	+5 +30				•	•	•	-40 +100 (-40 +212)	IP65
	C58 - C59 - C60 Optical standard encoders Through hollow shaft Industrial	86	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	88	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	90	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	92	58	● 1:10 ○ 15	12000			2048/ 1 sin/cos	300	+5			•				-20 +100 (-4 +212)	IP40
	MI58 - MI58S Magnetic encoders Sealed circuits Industrial	94	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	94	58	○ 15	6000	•	•	10000	500	+5 +10 +30 +5 +30				•	•	•	-25 +85 (-13 +185)	IP67
	I65 - IT65 Optical encoders Square flange, US size Industrial	98	65	● 12	6000	•	•	10000	300	+5 +10 +30 +5 +30	•	•		•	•	•	-40 +100 (-40 +212)	IP66
	IT68 Optical encoder Industrial	100	65	● 15	6000	•	•	10000	300	+5 +10 +30 +5 +30	•	•		•	•	•	-40 +100 (-40 +212)	IP66


ROTAPULS incremental encoders

	Page	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											
	102	77	14	6000	•		10000	300	+5 +10 +30 +5 +30	•			•	•	•	-25 +85 (-13 +185)	IP66
Heavy-duty																	
	104	80	30	6000	•	•	4096	100	+5 +10 +30 +5 +30				•	•	•	-40 +100 (-40 +212)	IP65
Feedback / Lift																	
	106	80	44	3000	•		4096	200	+5 +10 +30 +5 +30			•	•	•	•	-40 +100 (-40 +212)	IP65
Heavy-duty Feedback																	
	108	80	44	3000	•	•	8192	200	+5 +10 +30 +5 +30				•	•	•	-40 +100 (-40 +212)	IP65
Feedback / Lift																	
	110 112	115	11	6000	•		5000	100	+5 +10 +30 +5 +30	•	•		•	•	•	-40 +100 (-40 +212)	IP66
Heavy-duty / Wind																	
	114 116	100	1:17 16	6000	•	•	2500 2048	100	+5 +10 +30 +5 +30				•	•	•	-40 +100 (-40 +212)	IP65
Heavy-duty / Wind																	
	118	54	-	3600	•		500	30	+10 +30				•			-20 +85 (-4 +185)	IP65
Heavy-duty																	
	120	172x80 x53	12	6000	•		1068	60	+5 +10 +30 +5 +30	•	•		•	•	•	-25 +85 (-13 +185)	IP65
Heavy-duty																	
	122	105	10	6000	•	•	18000	300	+5 +10 +30 +5 +30				•	•	•	-25 +85 (-13 +185)	IP65
Industrial																	





ROTACOD absolute encoders

	Page	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										
	124	36	● 6 ○ 6	12000	•		13	+10 +30		•					-20 +85 (-4 +185)	IP67
Light-duty																
	126	36	● 6 ○ 6	12000	•		12 x 15	+10 +30		•					-20 +85 (-4 +185)	IP67
Light-duty																
	128	36	● 6 ○ 6	6000	•		20	+10 +30		•	•				-40 +100 (-40 +212)	IP65
Industrial / Feedback																
	130	36	● 6 ○ 6	6000	•		20 x 12	+10 +30		•	•				-40 +100 (-40 +212)	IP65
Industrial / Feedback																
	132	58	● 12 ○ 15	12000	•	•	13	+7,5 +34	•	•	•	•			-40 +100 (-40 +212)	IP67
Industrial																
	135 138	58	● 12 ○ 15	12000	•	•	13 x 14	+7,5 +34	•	•	•	•			-40 +100 (-40 +212)	IP67
Industrial																
	141	58	● 12 ○ 15	6000	•	•	19 + 2048	+10 +30		•	•		•		-40 +100 (-40 +212)	IP65
Industrial / Feedback																
	144	58	● 12 ○ 15	6000	•	•	16 x 14 + 2048	+10 +30		•	•		•		-40 +100 (-40 +212)	IP65
Industrial / Feedback																
	147	58	○ 15	6000	•	•	18 16 x 12 + 2048	+10 +30		•	•		•		-25 +85 (-13 +185)	IP65
Industrial / Feedback																





ROTACOD absolute encoders

		Page	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	149	58	● 12 ○ 15	6000	•	•	13	+10 +30	•	•					-40 +100 (-40 +212)	IP65
	AM58 - AM58S - AMC58 Optical multiturn encoders Industrial	152	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	155	58	● 10	6000	•		12 x 12	+10 +30		•			•	-40 +85 (-40 +185)	IP67	
	MM58 - MM58S - MMC58 Magnetic multiturn encoders Industrial	157	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	159	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	162	58	● 12 ○ 15	12000	•	•	12 x 14	+13 +30					•	-25 +85 (-13 +185)	IP67	
	AS58 A - AM58 A Optical absolute encoders Analogue output Industrial	165	58	● 12 ○ 15	6000	•		12 12 x 4 9 x 6 6 x 8	+15 +30					•	-25 +85 (-13 +185)	IP65	
	EM58 PA Optical multiturn encoder Programmable analogue output Industrial	168	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	171	58	● 12	6000	•		12 12 x 8	+10 +30	•				•	-25 +85 (-13 +185)	IP65	








ROTACOD absolute encoders

	Page	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										
	174	65	● 12	6000	•	•	13 x 14	+10 +30	•	•			•		-40 +100 (-40 +212)	IP66
Industrial																
	177	77	○ 14	6000		•	16 x 14	+10 +30	•	•	•		•	•	-25 +85 (-13 +185)	IP65
Heavy-duty																
	180	88	● 10 ○ 15	6000	•		13 x 12	+10 +30		•					-40 +100 (-40 +212)	IP65
Industrial																

ROTACOD absolute encoders • Fieldbus








	Page	Housing \varnothing (mm)	Shaft max. \varnothing (mm)	Shaft rotational speed max. (rpm)	Connection		Resolution max. (bits)	Power supply (Vdc)	CANopen	CANopen LIFT	Profibus-DP	DeviceNet	EtherCAT	Operating temp. °C (°F) (max.)	Protection max.	
					connector	cable										
	182	58	● 12 ○ 15	6000			13 13 x 12	+10 +30			•			-25 +85 (-13 +185)	IP65	
Industrial																
	184	58	● 12 ○ 15	6000			13 13 x 12	+10 +30	•	•				-25 +85 (-13 +185)	IP65	
Industrial																
	186	58	● 12 ○ 15	6000			18 16 x 14	+10 +30	•	•	•	•		-25 +85 (-13 +185)	IP65	
Industrial																

ROTACOD Absolute encoders • Fieldbus

	Page	Housing ø (mm)	Shaft max. ø (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											
	188	58	● 12	6000			•	•	13 x 12	+10 +30	•	•				-25 +85 (-13 +185)	IP65
AM58 K Optical multiturn encoders Profibus, CANbus interface Stainless steel version																	
Industrial / Food																	
	190	58	● 12 ○ 15	6000	•	•			18 16 x 14	+10 +30	•					-25 +85 (-13 +185)	IP65
ASx58x - AMx58x CANopen Direct connection Single & multiturn																	
Industrial																	
	193	58	● 12 ○ 15	6000			-	•	16 x 14	+10 +30				•		-25 +85 (-13 +185)	IP65
HM58 EC - HM58S EC HMC58 EC Optical multiturn encoders EtherCAT interface																	
Industrial																	
	195	58	● 12 ○ 15	6000			-	•	16 x 14	+10 +30					•	-25 +85 (-13 +185)	IP65
EM58 -HS58 - HM58 PT Optical encoders Profinet interface																	
Industrial																	
	177	77	○ 14	6000	•				18 16 x 14	+10 +30	•	•				-25 +85 (-13 +185)	IP66
XAC77 PB + CB ATEX multiturn encoder Profibus and CANbus interfaces (point to point)																	
Heavy-duty																	
	197	77	○ 14	6000			•	•	18 16 x 14	+10 +30	•	•	•			-25 +85 (-13 +185)	IP66
XAC77 FB Absolute encoder Profibus, CANbus and DeviceNet interfaces																	
Heavy-duty																	



ROTAPULS • ROTACOD bearingless encoders

	Page	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	SSI	Operating temp. °C (°F) min. – max.	Protection max.
					connector	cable											
	199	30÷56	Ø 8	3000	•		2048	100	+5	•						-40 +85 (-40 +185)	IP20
Light-duty Feedback																	
	203	-	Ø 50	6000		•	1024	100	+5 +10 +30				•	•		-40 +85 (-40 +185)	IP68
Heavy-duty Feedback																	
	205	36	Ø 10	40000		•	2048	300	+5 +10 +30	•	•		•	•		-20 +85 (-4 +185)	IP68
Industrial Feedback																	
	205	36	Ø 10	40000		•	13 Bit	300	+10 +30						•	-20 +85 (-4 +185)	IP68
Industrial Feedback																	
	207	-	Ø 250		•	•	90000	2000	+5 +10 +30				•	•		-20 +85 (-4 +185)	IP67
Heavy-duty Feedback																	
		-	Ø 380		•	•	18 Bit	-	+10 +30						•	-20 +85 (-4 +185)	IP67
Heavy-duty Feedback																	

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 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
Cordsets



Metric wheels and Gears

Metric wheels with 200 and 500 mm circumference
Aluminum or Rubber surface
Metric wheel encoders (IR65 series on request)
Racks and pinions (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)	Travel speed max. (m/s)	SSI	BiSS	RS485	Profibus	CANopen / CANlift	Analogue	Power supply (Vdc)	Operating temp. °C (°F) min. – max.	Protection max.
			connector	cable											
	MTA1 - MTA5 Magnetic tape Absolute coding	20 x 5,1 m	-	-	-	-	-	-	-	-	-	-	-	-40 +120 (-40 +248)	IP67
	SMA5 Compact magnetic sensor SSI interface Industrial	65 x 20 x 20		•	5	5	•						+10 +30	-25 +85 (-13 +185)	IP67
	SMA1 Compact magnetic sensor BiSS + sin/cos interface Feedback	85 x 21 x 20		•	5	5	•	•					+10 +30	-25 +85 (-13 +185)	IP67
	SMAG Magnetic system with self-guiding sensor head Heavy-duty	80 x 48 x 28	•	•	5	1	•						+10 +30	-25 +85 (-13 +185)	IP65
	SMAX Low cost magnetic sensor Heavy-duty	80 x 40 x 22		•	100	5	•		•			•	+10 +30	-25 +85 (-13 +185)	IP68 IP69K
	SMAL Magnetic sensor for long distances Elevators Industrial	190 x 52 x 45	•	•	1 mm	5	•		•	•	•		+10 +30	-25 +85 (-13 +185)	IP54
	SMAL2 Magnetic sensor for long distances Elevators Lift / Industrial	147 x 100 x 60		•	0,1 mm	5	•		•		•		+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 126,6	14	60	5	12		24		•	•	•	0 +60 (32 +140)	IP54
	RD52 Compact positioning unit with absolute encoder Brushless motor Industrial	48,3 x 88 x 126,6	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	15 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	-
	LD112 Compact LCD battery display	LCD 6 digit	•	•	•	72 x 48 x 31				•	-		battery	-
	LD111 - LD141 Ultracompact OEM battery display	LCD 6 digit	•	•	•	61 x 39 x 23 87 x 60,5 x 47				•	-		battery	-
	LD140 - LD142 Standard battery display	LCD 6 digit	•	•	•	96 x 72 x 47				•	-	•	battery	-
	LD200 Universal position display	LED 8 digit	•	•	•	96 x 48 x 49	•	•	•	•	500	•	24 Vdc	3 x 24V @ 23mA
	LD250 Absolute multi-function display	LED 6 digit	•		•	96 x 48 x 141				•	-	•	24 Vdc 115/230 Vac	0/4 - 20mA 0...±10Vdc
	LD300 Incremental multi-function display	LED 6 digit	•		•	96 x 48 x 141	•				100	•	24 Vdc 115/230 Vac	0/4 - 20mA 0...±10Vdc
	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 24 Vdc/Vac 115 Vac 230 Vac	2 x 24V @ 600mA
	MC221 Compact 2 axes position display	2 x LED 6 digit	•			96 x 96 x 72	•				500		24 Vdc	2 x 24V @ 600mA

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 (ABO) or RS422 (ABO /ABO)		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
	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