

SELECTION GUIDE



Incremental Encoders

Version	Incremental magnetic encoder shaft DINMS24	Incremental encoder shaft BINMS24	Incremental encoder hollow shaft BINB24	Incremental encoder shaft and hollow shaft AINS40/AINS40Z AINH40Z
Type series				
Electrical characteristics				
Output	RS 422/Push-pull	Push-pull	Push-pull	RS 422/Push-pull
Supply voltage (VDC)	5 or 5 ... 30	5 ... 24 or 8 ... 30	5 ... 24 or 8 ... 30	5 or 11 ... 30 or 5 ... 24
Mechanical characteristics				
Shaft Ø (mm)	6	4/5/6	4/6	6
housing diameter (mm)	24	24	24	40
max. speed (min ⁻¹)	12000	12000	12000	12000
max. shaft load radial/axial (N)	80/50	10/20	20/10	20/10
max. working temp. (°C)	-40 ... +80	-20 ... +85	-20 ... +85	-20 ... +80
Protection to	IP 65/IP 67	IP 64	IP 64	IP 52
Type of connection	cable, connector	cable	cable	cable
max. resolution	1024	1080	1024	1024
highlights or product differentiations	miniature version	miniature version	miniature hollow shaft version	standard hollow shaft version
page	22	23	25	27/28



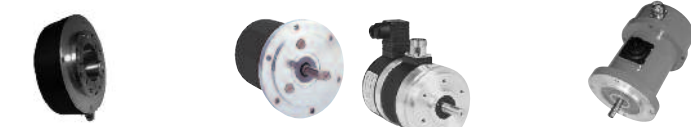
Incremental Encoders

Version	Incremental encoder hollow shaft AINH90/AINH90S	Incremental encoder hollow shaft ANIH100	Incremental encoder hollow shaft CINH100	Incremental encoder hollow shaft DINH100
Type series				
Electrical characteristics				
Output	RS 422/Push-pull	RS 422A/Push-pull	RS 422/Push-pull	RS 422/Push-pull
Supply voltage (VDC)	5 or 11 ... 30	4.75 ... 30	10 ... 30	4.75 ... 5.5 or 10 ... 30
Mechanical characteristics				
Shaft Ø (mm)	12/20/25/30/32	26/38/44	16/17/18/25	25 ... 45
housing diameter (mm)	90	100	100	100
max. speed (min ⁻¹)	4500	4000	3000	3500
max. shaft load radial/axial (N)		80/60	250/100	200/100
max. working temp. (°C)	-20 ... +80	-20 ... +70	-40 ... +85	-10 ... +70
Protection to	IP 65	IP 65	IP 66	IP 54
Type of connection	cable, connector	cable, connector	cable, connector	cable, connector
max. resolution	10000	25000	5000	4096
highlights or product differentiations	heavy duty hollow shaft	heavy duty hollow shaft	heavy duty hollow shaft generator control	heavy duty large hollow shaft diameter
page	38	40	42	44



Incremental Encoders

Version	Incremental encoder shaft and hollow shaft FINS58/FINH58	Incremental encoder shaft AINS58	Incremental encoder hollow shaft CINH76	Incremental encoder shaft AINS90/AINS90S
Type series				
Electrical characteristics				
Output	RS 422/Push-pull/sine wave	RS 422/Push-pull	RS 422/Push-pull	RS 422/Push-pull
Supply voltage (VDC)	5 or 5 ... 30 or 4.75 ... 30	5 or 4.75 ... 30	5 or 10 ... 30	5 or 11 ... 30
Mechanical characteristics				
Shaft Ø (mm)	6/10 or 6/8/10/12/14	6/10	15 ... 42	11/12
housing diameter (mm)	58	58	76	90
max. speed (min ⁻¹)	9000/12000	8000	6000	6000
max. shaft load radial/axial (N)	100/50	38/40		200/100
max. working temp. (°C)	-30 ... +100	-20 ... +70	-25 ... +100	-20 ... +80
Protection to	IP 65/IP 67	IP 65	IP 40/IP 64	IP 65
Type of connection	cable, connector	cable, connector	cable	cable, connector
max. resolution	80000 (interpolated)	2499	10000	10000
highlights or product differentiations	standard version Option: programmable sine wave output	economical version Option: up to +100 °C	large hollow shaft diameter	heavy duty high resolution
page	29	32	34	36



Incremental Encoders

Version	Incremental encoder hollow shaft DINH145	Overspeed Switch/with encoder AOSS90	Overspeed switch/with encoder FINS130
Type series			
Electrical characteristics			
Output	RS 422/Push-pull	NO, NC	NO, NC
Supply voltage (VDC)	4.75 ... 5.5 or 10 ... 30	240 VAC / 6 A	220/380 V AC, 5A
Mechanical characteristics			
Shaft Ø (mm)	48 ... 72	11, 12	11, 12
housing diameter (mm)	145	90	130
max. speed (min ⁻¹)	800	9000	6000
max. shaft load radial/axial (N)	200/100	200/100	200/100
max. working temp. (°C)	-10 ... +70	-30 ... +130	-30 ... +100
Protection to	IP 54	IP 66	IP 65
Type of connection	cable, connector	connector, terminal box	cable, connector
max. resolution	2500	4000	4000
highlights or product differentiations	heavy duty large hollow shaft diameter	heavy duty centrifugal overspeed switch; multiple mounting possibilities with incremental and absolute encoders	heavy duty centrifugal overspeed switch; multiple mounting possibilities with incremental and absolute encoders
page	46	48	59



SELECTION GUIDE



Incremental Encoders

Version	Overspeed switch/ Rotation Speed monitor 6KB44110/AL-Ni	Connector belt monitor with overspeed switch 6KB4111	Draw Wire CDxx	Magnetic linear encoder system KLME01
Type series				
Electrical characteristics				
Output	2 Relay contacts r/l Internally generated	2 Relay contacts r/l Internally generated	see section	PPL/TTL/RS422 10 ... 30
Supply voltage (VDC)				
Mechanical characteristics				
Shaft Ø (mm)	Pin adapter 120	Pin adapter 120		
housing diameter (mm)	6000	6000		
max. speed (min ⁻¹)				
max. shaft load radial/axial (N)				
max. working temp. (°C)	-25 ... +70	-25 ... +70		-25 ... +85
Protection to	IP 65	IP 65		IP 67
Type of connection	M 20 cable gland	M 20 cable gland		cable
max. resolution				5/10/25/62.5 µm
highlights or product differentiations	Electronic overspeed switch, Speed range adjustable from 60–6000 rpm	heavy duty conveyor belt speed monitor	incremental or absolute encoder	measuring length up to 100 mm High resolution up to 0.001 mm
page	50	51	53	55



Absolute Encoders

Version	Absolute encoder, single-turn and multi-turn shaft and blind shaft CAxx58	Absolute encode multi-turn shaft and hollow shaft FAxx90
Type series		
Electrical characteristics		
Output	SSI/BiSS/Parallel/Profibus DP/Device Net/ CANopen/Interbus	SSI/Profibus/CANopen Parallel on request
Supply voltage (VDC)	5 or 10 ... 30	11 ... 30
Mechanical characteristics		
Shaft Ø (mm)	6/10 or 10/12	11/12 or 12/20/25/30
housing diameter (mm)	58	90
max. speed (min ⁻¹)	12000	9000/6000
max. shaft load radial/axial (N)	60/40	200/100
max. working temp. (°C)	-40 ... +100	-20 ... +90
Protection to	IP 64/IP 67	IP 65/IP 67
Type of connection	cable, connector	cable, connector
max. resolution	29 Bit	29 Bit
highlights or product differentiations	High temperature	heavy duty large hollow shaft diameter
page	68	74



Absolute Encoders

Version	Magnetic linear encoder profile system	Sealed magnetic measuring scale	Absolute magnetic encoder, single-turn, multi- turn, shaft and blind shaft DAMxx37/58	Absolute encoder, single- turn and multi-turn shaft, hollow and blind shaft CAxx37
Type series	KLME02	KMLE03		
Electrical characteristics				
Output	PPL/TTL/RS422	PPL/TTL/RS422	SSI/CANopen	SSI/BiSS option SinCos
Supply voltage (VDC)	10 ... 30	10 ... 30	5 or 10 ... 30	5 or 7 ... 30
Mechanical characteristics				
Shaft Ø (mm)			6, 8, 10, 12, 14	6 or 8
housing diameter (mm)			37/58	37.5
max. speed (min ⁻¹)			12000/8000	12000
max. shaft load radial/axial (N)			80/50 or 125 (220)/120	
max. working temp. (°C)	-25 ... +85	-25 ... +85	-40 ... +80	-25 ... +100/-15 ... +120
Protection to	IP 67	IP 67	IP 67	IP 64/IP 40
Type of connection	cable	cable	cable, connector	cable, PCB connector
max. resolution	5/10/25/62.5 µm	5/10/25/62.5 µm	14/40 bit	29/31 Bits
highlights or product differentiations	measuring length up to 100 mm High resolution up to 0.001 mm	measuring length up to 100 mm High resolution up to 0.001 mm	compact and heavy duty industrial absolute magnetic encoder	miniature version high temperature
page	55	55	61	65



Special versions

Version	Incremental encoder shaft	Incremental encoder shaft	Absolute encoder, single-turn, taper shaft	Absolute encoder shaft
Type series	DINS53	DINS58	GAST37	MyA2
Electrical characteristics				
Output	RS 422/Push-pull	RS 422/Push-pull	12/13 Bits	analogue
Supply voltage (VDC)	4.75 ... 5.5 or 10 ... 30	4.75 ... 5.5 or 10 ... 30	4.75 ... 5,25	15 ... 30
Mechanical characteristics				
Shaft Ø (mm)	6	12	5.5; taper 1:3	6
housing diameter (mm)	53	58	37	58
max. speed (min ⁻¹)	6000	8000	12000	12000
max. shaft load radial/axial (N)	20/10	400/400		20/10
max. working temp. (°C)	-10 ... +70	-10 ... +70	-40 ... +115	0 ... +70
Protection to	IP 68	IP 65/IP 67	IP 40	IP 65
Type of connection	cable, connector	cable, connector	12 pin PCB connector	connector
max. resolution	1500	5000	13 Bit	10 Bit
highlights or product differentiations	High protection class IP 68, easy mounting	High shaft load	Absolute motor encoder Small dimensions Mounted stator coupling	analogue output 4–20 mA/0–10 V according to angle 0–360°
page	on request	on request	on request	on request

- Specifications are subject to change without notice.
- Due to RoHS EU directive 2002/95/EC, housings will be changed to lead free colours without further notice. For actual RoHS status please consult factory.



Meyer Industrie-Electronic GmbH – MEYLE
 Carl-Bosch-Straße 8 Tel.: +49 54 81-93 85-0 Internet: www.meyle.de
 49525 Lengerich/Germany Fax: +49 54 81-93 85-12 E-Mail: sales@meyle.de