

Incremental Encoder

Red Line



Blind shaft

Hollow shaft

Hollow shaft



AK4



AK5



GZT4



GHT514



GHT5



GHO/GHK



GHT9



GHU9



GHW9



Housing diameter	40 mm	58 mm	40 mm	58 mm	58 mm	58 mm	90 mm	90 mm	90 mm
Housing length	35 mm	60 mm	26 mm	55 mm	36 mm	40	58 mm	59 mm	55 mm
Standard shaft diameter *	6 mm	6 to 15 mm	06 mm	10-12-14 mm	6-8 mm	6 to 15 mm	10-12 mm	12 to 25 mm	25-32 mm
Resolution	1-1024 cpt	1-6000 cpt	1-1024cpt	1-5000 cpt	1-6000 cpt	1-5000 cpt	1-10000 cpt	1-10000 cpt	1-10000 cpt
Operating T° C **	-20° + 75°C	-20° + 75°C	-20° + 75°C	-20° + 75°C	-20° + 75°C	-20° + 75°C	-20° + 75°C	-20° + 75°C	-20° + 75°C
Protection	IP64	IP65	IP52	IP65	IP65	IP65	IP65	IP65	IP65
Driver	5 Vcc RS422	5 Vcc RS422	5V RS422	5 V RS422	5 Vcc RS422	5V RS422	5 Vcc RS422	5 Vcc RS422	5 Vcc RS422
Push-Pull	5-24 Vcc	11-30 Vcc	11-30 V	5-24 V	11-30 Vcc	11-30V	15-30 output 12 Vcc	15-30 output 12 Vcc	15-30 output 12 Vcc
Push-Pull	11-30 Vcc	11-30 Vcc	5-24 V	11-30 Transistorized	11-30 Vcc output 5V RS422	11-30V output RS422	11-30 Vcc	11-30 Vcc	11-30 Vcc
Output circuits				11-30 V output 5V RS422	11-30 Vcc Transistorized	11-30V Transistorized	11-30 Vcc 150 mA	11-30 Vcc 150 mA	11-30 Vcc 150 mA
Maximum frequency ***	100 kHz	100 kHz	100 kHz	100 kHz	100 kHz	100 kHz	100 kHz	100 kHz	100 kHz

* Other diameters on request

** Extended temperature range

*** 200 kHz on request

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Incremental Encoder

Red Line



Solid shaft

Solid shaft

EEx d IIC T6

Heavy industry

GHM4



GHM5



GHM5S6



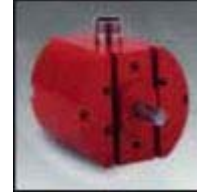
GHM911



GHM912



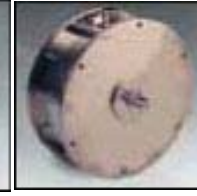
PAO



EX/IN



PL22



Housing diameter	40 mm	58 mm	58 mm	90 mm	90 mm	102 mm	116 mm	200 mm
Housing length	35 mm	59 mm	46 mm	101,5 mm	101 mm	79 mm	111 mm	82 mm
Standard shaft diameter *	6 mm	6-8-9,52-10 mm	6 mm	11 mm	12 mm	12 mm	12 mm	14 mm
Resolution	1-2500 cpt	1-6000 cpt	1-6000 cpt	1-1000 cpt	1-10000 cpt	1-2500 cpt	1-10000 cpt	1-10000 cpt
Operating T° C **	-20° + 75°C	-20° + 75°C	-20° + 75°C	-20° + 75°C	-20° + 75°C	-20° + 75°C	-20° + 75°C	-20° + 75°C
Protection	IP54	IP65	IP65	IP65	IP65	IP54	IP65	IP65
Driver	5 Vcc RS422	5 Vcc RS422	5 Vcc RS422	5 Vcc RS422	5 Vcc RS422	5 Vcc RS422	5 Vcc RS422	5 Vcc RS422
Push-Pull 5-24 Vcc		11-30 Vcc	11-30 Vcc	15-30 Vcc output 12 Vcc	15-30 Vcc output 12 Vcc	15-30 Vcc output 12 Vcc	15-30 Vcc output 12 Vcc	15-30 Vcc output 12 Vcc
Push-Pull 11-30 Vcc		11-30 Vcc Transistorized	11-30 Vcc Transistorized	11-30 Vcc output 150 mA	11-30 Vcc output 150 mA	11-30 Vcc	11-30 Vcc	11-30 Vcc
Output circuits		11-30 Vcc output RS422	11-30 Vcc output RS422	11-30 Vcc output RS422	11-30 Vcc Transistorized			11-30 V output RS422
				11-30 Vcc Transistorized	Push-Pull 11-30 V			11-30 V Transistorized
				Push-Pull 11-30 V				11-30 V 150 mA
Maximum frequency ***	100 kHz	100 kHz	100 kHz	100 kHz	100 kHz	100 kHz	100 kHz	100 kHz

* Other diameters on request

** Extended temperature range

*** 200 kHz on request