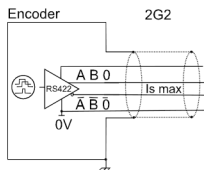
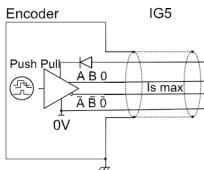


ATEX INCREMENTAL ENCODERS, IHM5 RANGE

OUTPUT ELECTRONIC / SUPPLY - DIGITAL SIGNALS (SQUARE WAVE SIGNALS)

Types	Electronic 2G2	Electronic IG5
	 II 1 G Ex ia IIC T4 Ga	 II 1 G Ex ia IIB T4 Ga
Power supply	4.5 to 6Vdc, cons. : 75mA	8 to 12Vdc, cons. : 75mA
	Ui≤10V, Ii≤750mA, Pi≤1 W Ci=1,3µF, Li=0	Ui≤16V, Ii≤750mA, Pi≤1 W Ci=1,3µF, Li=0
Output signal	RS422, 40 mA, TTL 20mA, Fmax=300kHz	Push Pull 50mA, Fmax=300kHz
	Ui≤10V, Ii≤200mA, Pi≤0,1 W Ci=1,3µF, Li=0	Ui≤16V, Ii≤150mA, Pi≤0,1 W Ci=1,3µF, Li=0
Cable linear capacitance	100pF/m	
Cable linear inductance	1,2µH/m	

STANDARD CONNECTION

		-	+	A	B	0	A/	B/	0/	Ground
G6	12 pins CW	1	2	3	4	5	6	7	8	Connector body
G8	12 pins CCW	10 + 11	2 + 12	8	5	3	1	6	4	Connector body
G3	PVC cable 8 wires 8230/020	WH white	BN brown	GN green	YE yellow	GY grey	PK pink	BU blue	RD red	General shielding
GP	PUR cable 12 wires 8230/050	WH white + WH/GN white /green	BU blue + BN/GN brown / green	GY grey	BN brown	RD red	PK pink	GN green	BK black	General shielding

ORDERING REFERENCE

	Shaft Ø	Digital Signal (square)				Connection	Orientation		
IHM5 Aluminium body	06 : 6mm	Electronic : 2G2, IG5		Signals	Resolution	G6 : M23 12pins CW G8 : M23 12 pins CCW Other: consult us	R : radial		
		Supply	Output stage	9 : A,A/,B,B/,0,0/ (0 gated A&B)	80 000 max				
		2 : 5Vdc	G2 : driver 5Vdc RS422						
IBM5 Stainless steel body	10 : 10mm	1 : 8 to 12Vdc	G5 : push-pull			G3 : PVC cable 8 wires GP : PUR cable 12 wires	Example : R020: radial cable 2m		
Ex: IHM5 _		10 //	2	G2	9 //	10 000//	GP	R050	

Available resolutions (2G2 and IG5): 50 60 100 120 125 127 150 180 200 240 250 256 300 314 360 375 400 500 512 600 720 750 768 800 927 1000 1024 1200 1250 1280 1440 1500 1800 2000 2048 2400 2500 3000 3600 4000 4096 5000 6000 7200 8000 8192 10000

Interpolated available resolutions (2G2 only) : 1080 2560 2880 3072 4320 5120 7500 5760 9000 10240 10800 12000 12500 12288 14400 15000 16000 16384 18000 20000 20480 24000 25000 28800 30000 32000 32768 36000 40000 40960 43200 48000 49152 50000 57600 60000 64000 65536 80000

NEVER CONNECT/DISCONNECT OR OPEN THE ENCODER WITH POWER ON OR IN HAZARDOUS ENVIRONMENTS

RESPECT THE MOUNTING TOLERANCES AND THE MECHANICAL RESTRICTIONS IN ORDER TO REMAIN IN LINE WITH THE MAXIMUM SURFACE TEMPERATURE VALUE ALLOWED BY THE CLASS T4 REQUIREMENTS

The apparatus can be only connected to certified intrinsically safe apparatus. These combinations must be compatible as regard the intrinsic safety rules (see electrical parameters clause 15).

For the apparatuses equipped with a cable, the connecting must be done according to the requirements of the EN 60079-0 standard.

The apparatuses type "IH.." must not be submitted to mechanical impacts or frictions

Operating ambient temperature : **-30°C to +70°C**

Made in FRANCE

Changes possible without further notice - Version 1.60603