

BEI Sensors SAS Espace Européen de l'Entreprise 9, rue de Copenhague B.P. 70044 Schiltigheim F 67013 Strasbourg Cedex Tél : +33 (0)3 88 20 80 80 Fax : +33 (0)3 88 20 87 87 Mail : info@beisensors.com Web : www.beisensors.com

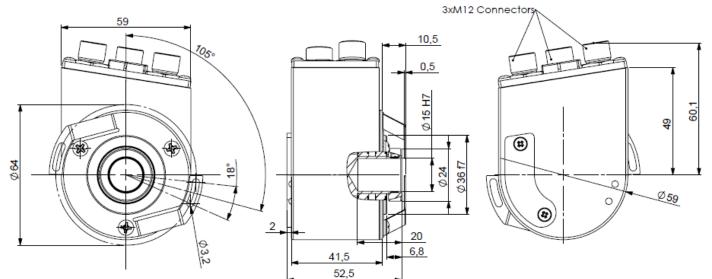


ABSOLUTE MULTI-TURN ENCODER, PROFIBUS INTERFACE, PHK5 SERIE (3 x M12)

PHK5, new generation of Profibus absolute multi-turn encoders :

- Extra-flat encoder, blind shaft up to 14mm (15mm option), reduction hubs available: 6, 8, 10, 12mm,
- Also available in through shaft version,
- Robustness and excellent resistance to shocks / vibrations,
- High protection level IP65,
- High performances in temperature -20°C to +85°C,
- 5 to 30 Vdc power supply,
- Standard resolution : 8192 points per revolution (13 bits resolution),
- High resolution available in option: 65 536 points par revolution (16 bits resolution),
- Turns numerisation up to 65 536 (16 bits),
- Connection via M12 connectors,
- DPV0, Class 2, encoder profile 3.062,
- PHK5 also available with SSI, programmable SSI, CANopen and RS232 interface.

DIMENSION : PHK5 Profibus - connection 3xM12 – with DACs 9445/016* mounted on bearings housing



* Accessory to be ordered separately (standard DAC system : M9445/016)

MECHANICAL CHARACTERISTICS

	Cover : treated steel	Vibration (EN60068-2-6)	≤ 100m.s [.] ² (10 2 000 Hz)	
Material	Body: aluminium	EMC	EN 61000-6-4, EN 61000-6-2	
	Shaft : stainless steel	Isolation	100V (1 min)	
Bearings	6 803 serie	Weight	0,700 kg	
Maximum load	Axial : 20 N	Operating temperature	- 20 + 85 °C (encoder T°)	
Maximum load	Radial : 50 N	Storage temperature	- 20 + 85 °C	
Shaft inertia	$\leq 2,2.10^{-6} kg.m^2$	Protection(EN 60529)	IP 65	
Torque	≤ 6.10 ^{·3} N.m	Torque (ring pressure screw)	nominal: 1.5N.m, break: 2.0N.m	
Permissible max. speed	6 000 min ⁻¹	Theoretical mechanical life	etime 10º turns (F _{axial} / F _{radial})	
Continuous max. speed	6 000 min ⁻¹	10 N / 25 N	230	
Shock (EN60068-2-27)	\leq 500m.s ⁻² (during 6 ms)	20 N / 50N	29	





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+33 (0)3 88 20 80 80 +33 (0)3 88 20 87 87 Fax Mail Web www.beisensors.com

Tél

РНК5 ABSOLUTE MULTI-TURN ENCODER, PROFIBUS INTERFACE, PHK5 SERIE (3 x M12)

GENERALITY

Transmission frequency: from 9.6Kbaud to 12Mbaud.

Electronic interface: opto-isolated RS485.

Adress: permits the addressing of each encoder in an installation (32 master stations or slaves stations per segment without repetitor, 127 maximum with repetitor).

ON ON Adress: 0 to 126 (Binary code)

End line resistance termination: 1, 2 ''ON'' (Beginning or end line)

on ''ON''					J	,
=	1 2	4	8	16	32	64

Switch 8 on ''OFF''.

Example: Adress 5: Switch 1 & 3 on ''ON'', others on ''OFF''.

PROGRAMMABLE PARAMETERS

Direction : Permits the definition of the counting direction of the encoder (CW or CCW) following its mechanical position.

Resolution: the number or points per turn can be between 0 and 8192, option: 0 to 65536.

Global resolution (MAX RANGE) : Total number of codes of the encoder (2 to 536 870 912, option 2 to 2 147 483 648). Reset : defines the value of its actual position.

Time base : defines the base time for the speed calculation (10 ms, 100 ms, 1 s, speed in rpm).

CONNECTION

BUS IN (M12 - 5 male pinouts B code)								
Signal	NC	BUS A	NC	BUS B	NC			
Pinout	1	2	3	4	5			

NC : do not connect

BUS OUT (M12 – 5 female pinouts B code)

Signal	P5V	BUS A	BUS GND	BUS B	NC
Pinout	Pinout 1		2 3		5

P5V & BUS GND for the connection of the end-line termination resistance.

POWER SUPPLY (M12 - 4 male pinouts A code)

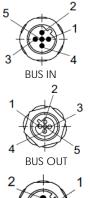
Pinout 1 2 3 4	Signal	+Vcc	NC	0Vdc	NC
	Pinout	1	2	3	4

Power supply : 5-30V consumption <200 mA (160mA typ)

ORDERING CODE (Special versions upon request, for ex. special flanges/electronics/connections.

	Shaft Ø	Supply	Interface	Code	Resolution	Turns Nb	Connection	Connection orientation
РНК5	14 :	P :	BG :	B:	13 :	B16 :	BH:	R :
	14mm Reduction hub available 15 : 15mm option	5 to 30Vdc	Profibus	Binary	8192 points per turn (2 ¹³) Option 16 : 65 536 points per turn (2 ¹³)	65 536 turns (2 ¹⁶) B15 : 32768 turns (2 ¹⁵)	3 connectors M12	radial
Ex: PHO5_	14 //	Р	BG	B //	13	B16 //	BH	R

Made in FRANCE





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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA

CONTACT US

Regional head offices:

United States of America Sensata Technologies

Attleboro, MA

Phone: 508-236-3800 E-mail: support@sensata.com

Netherlands

Sensata Technologies Holland B.V. Hengelo

Phone: +31 74 357 8000 E-mail: support@sensata.com

China

Sensata Technologies China Co., Ltd. Shanghai **Phone:** +8621 2306 1500 **E-mail:** support@sensata.com

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