BEI IDEACOD 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@bei-ideacod.com
Web : www.bei-ideacod.com

SHU9

DEVICENET ABSOLUTE MULTITURN ENCODERS, SHU9 RANGE

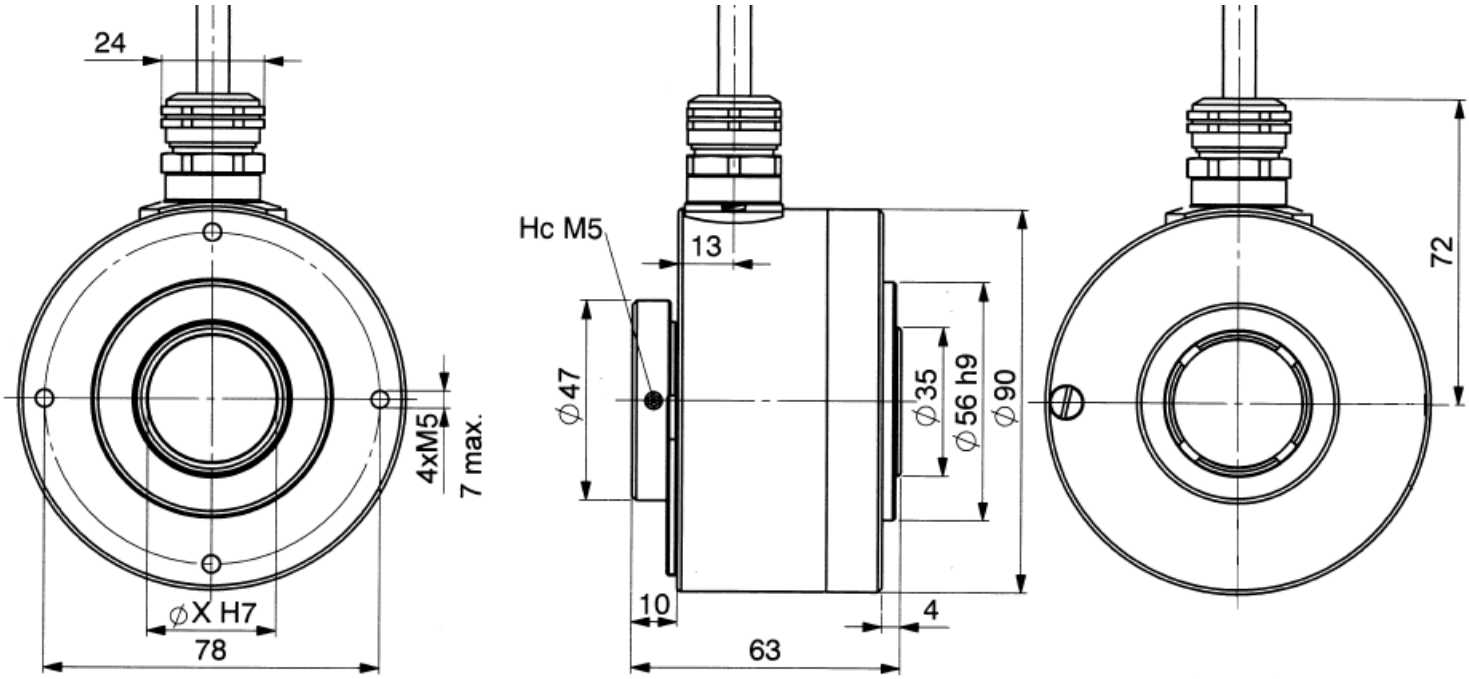
Especially designed for Heavy Duty Industry (steel, paper, wood – mills, cranes...). Compact and robust conception. Excellent resistance to shocks/vibrations and to extreme axial/radial loads

Adaptation with reduction hubs in aluminium or in PEEK composite

Possibility of double or triple mounting in associating incremental, absolute and tachymetric functions

Also available in parallel, SSI and fieldbus interfaces : CanOpen and Profibus

SHU9_30 connection BAR (radial cable)



Material (Stainless steel option)	Cover : zinc alloy
	Body: aluminium
Shaft	Stainless steel
Bearings	6807 serie
Maximal loads	Axial : 50 N
	Radial : 80 N
Shaft inertia	≤ 56.10^{-6} kg.m²
Torque	≤ 25.10^{-3} N.m
Permissible max. speed	6 000 min^{-1}
Continuous max speed	3 600 min^{-1}
Shaft seal	P.T.F.E
Shocks (EN60068-2-27)	≤ 300 $m.s^{-2}$ (during 6 ms)

Vibration (EN60068-2-6)	≤ 100 $m.s^{-2}$ (10 ... 500 Hz)
EMC	EN 50081-1, EN 61000-6-2
Isolation	1 000 V eff
Encoder weight (approx.)	0,900kg zinc alloy cover, alu body
	1,100kg zinc alloy cover, stainless steel body
	1,200kg stainless steel body & cover
Operating temperature	- 10... + 70 °C (encoder T°)
Storage temperature	- 10... + 70 °C
Protection(EN 60529)	IP 65
Torque (ring screw)	nominal: N.m, break: N.m
Theoretical mechanical lifetime 10^9 turns (F_{axial} / F_{radial})	
25 N / 40 N : 140	50 N / 80 N : 17

BEI IDEACOD 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@bei-ideacod.com
Web : www.bei-ideacod.com

SHU9

DEVICENET ABSOLUTE MULTITURN ENCODERS, SHU9 RANGE

Programmable Parameters

Resolution could be 13, 10, 2 and 0 bits
Reset to a value (X) : puts the code of the present position to 0 (immobile shaft)
Transmission speed: configurable at 125 kBaud (default value), 250 kBaud, 500 kBaud
Address: defines the position of the encoder on the bus 1 to 63, default value: id = 63

The Communication Modes: The interrogation of the encoders could be done according to the following 4 modes :

CYCLIC Mode: the encoder transmits its position at the start of a programmed timer via the bus (with no answer). With an answer, the master must send an acknowledgement of the position of each frame
BIT STROBE Mode: A general request from the master (broadcast) makes it possible to interrogate max. 64 devices simultaneously
EXPLICIT Mode: This mode makes it possible to program and interrogate the parameters of the encoder, as well as its position
POOLING Mode: the encoder answers upon request of the master

The user manual and the ESD file are delivered with the encoder

DEVICENET CONNECTION

1	2	3	4	5
DRAIN	24V	GND	CAN HIGH	CAN LOW

Nota : Refer to the bus standards for the maximal derivation length

ORDERING CODE (Special versions upon request, for ex. over-speed switches, special flanges/electronics/connections...)

	Shaft ∅	Supply	Output stage	Code	Resolution	Number of turns	Connection	Connection orientation
SHU9 : Zinc cover Alu body **SBU9 :** Zinc cover Stainless steel body **SXU9** : Stainless steel cover & body	**30**:30mm Shaft reduction hubs available from 10 to 28mm	**5** : 11 to 30Vdc	**BA** : DeviceNet	**B**: Binary	**13** : 8192 points per turn (2^{13})	**B16** : 65 536 turns (2^{16})	**BA:** Cable gland + 1m cable + miniC 5 pins connector	Example : **R010** : radial cable de 1m
SHU9 _	**30 //**	**5**	**BA**	**B //**	**13**	**B16 //**	**BA**	**R010**

Made in FRANCE