

SENDIX H120 Z OTWOREM

SERIE H120

- Do przemysłu ciężkiego Średnica zewnętrzna: Ø 110 mm
- Maks. średnica otworu: Ø 28 mm
- Maks. rozdzielczość: 5000 imp./obr.
- Wyjście: Push-Pull, RS-422
- Wersja z dwoma enkoderami lub monitorem prędkości



OPIS PRODUKTU

Enkodery Sendix Heavy Duty H120 Kubler zostały zaprojektowane specjalnie z myślą o dużych silnikach i generatorach. Dzięki systemowi HD-Safety-Lock™ są one bardzo dokładne i wytrzymałe, a zintegrowana izolacja łożysk zapewnia jeszcze wyższy stopień bezpieczeństwa.

Szeroki zakres temperatur pracy oraz wysoki stopień ochrony IP pozwalają na zastosowanie nawet w najtrudniejszych warunkach.

Wał z otworem przelotowym do 28mm, szeroka gama systemów montażowych i możliwości przyłączeniowych zapewniają najwyższy stopień elastyczności podczas instalacji.

W celu określenia numeru katalogowego proszę o zapoznanie się z poniższymi informacjami.

Order code Hollow shaft version		8.H120 . XXXX . XXXX
		Type a b c d e
a Flange		
1 = without mounting aid		
2 = with fastening arm 70 mm [2.76"] ²⁾		
3 = with fastening arm 100 mm [3.93"] ²⁾		
4 = with fastening arm 150 mm [5.91"] ²⁾		
5 = with stator coupling, ø 119 mm [4.69"]		
b Through hollow shaft		
2 = ø 16 mm [0.63"]		
3 = ø 20 mm [0.79"]		
5 = ø 25 mm [0.98"]		
7 = ø 28 mm [1.10"]		
6 = ø 1"		
Blind hollow shaft, with central fastening insertion depth max. 53 mm [2.09"]		
A = ø 12 mm [0.47"]		
B = ø 16 mm [0.63"]		
Blind hollow shaft, cone with central fastening insertion depth max. 22.5 mm [0.89"]		
K = ø 17 mm [0.67"], 1 : 10		
c Output circuit / power supply		
4 = RS422 (with inverted signal) / 5 V DC		
1 = RS422 (with inverted signal) / 10 ... 30 V DC		
5 = push-pull (with inverted signal) / 10 ... 30 V DC		
6 = push-pull (with inverted signal) / 10 ... 30 V DC, power version up to 350 m		
B = optical fiber + RS422 (with inverted signal) / 5 V DC ³⁾		
A = optical fiber + RS422 (with inverted signal) / 10 ... 30 V DC ³⁾		
C = optical fiber + push-pull (with inverted signal) / 10 ... 30 V DC ³⁾		
d Type of connection		
1 = radial cable, 1 m [3.28'] PVC		
A = radial cable, special length PVC *)		
2 = radial M12 connector, 8-pin, ccw		
4 = radial M23 connector, 12-pin, ccw		
D = radial M23 connector, 12-pin, cw		
K = terminal box with plug-in spring terminal connectors, rotatable through 180°		
L = optical fiber connector + radial M23 connector, 12-pin, cw ⁴⁾		
*) Available special lengths (connection type A): 2, 3, 5, 8, 10, 15 m [6.56, 9.84, 16.40, 26.25, 32.80, 49.21'] order code expansion .XXXX = length in dm ex.: 8.H120.121A.2048.0030 (for cable length 3 m)		
e Pulse rate		
50, 360, 512, 600, 1000, 1024, 1500, 2000, 2048, 2500, 4096, 5000 (e.g. 360 pulses => 0360)		
Optional on request - other pulse rates - Ex 2/22 ⁵⁾		

SPECYFIKACJA TECHNICZNA

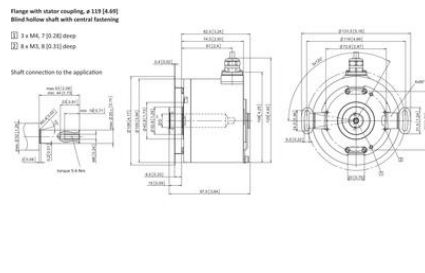
Liczba impulsów max	5000
Montaż	Wał drążony
Napięcie zasilania DC max.	30 V DC
Napięcie zasilania DC min.	5 V DC
Podłączenie	Kabel, M12, Złącze M23
Średnica obudowy	120 mm
Średnica wału max	25 mm
Średnica wału min	12 mm
Stopień ochrony IP	IP66, IP67
Typ czujnika	Inkrementalny
Wersja	Wielobrotowy
Wyjście	Push/Pull, RS422
Zakres temperatur do	100 °C
Zakres temperatur od	-40 °C

Output circuit	Type of connector	Cable (insulator removed wires individually before initial start-up)
L, A, S, S, S	1	Signal: — 0 V — +V — (0 Vmax) — (0 Vmax) — Cable colour: WH BK GR PK RD BU GN VE CY PK BU RD SHld
Output circuit	Type of connector	M12 connector, 8-pin
L, A, S, S, S	2	Signal: — 0 V — +V — 0 Vmax — 0 Vmax — A — B — C — D — E — Pin: 1 2 — 3 4 5 6 7 8 Pin ¹⁾
Output circuit	Type of connector	M23 connector, 12-pin
L, A, S, A, A, C, C	4, 5, L	Signal: — 0 V — +V — 0 Vmax — 0 Vmax — A — B — C — D — E — Pin: 30 32 31 2 5 6 8 1 3 4 Pin ²⁾
Output circuit	Type of connector	Technical connections
L, A, S, S, S	6	Signal: — B — A — 0 V — +V — 0 — 0 — A — B — C — Pin: 8 9 — + — PS 0 A B C

VE Encoder power supply +V DC
 0 V Encoder power supply ground GND (0 V)
 0 Vmax / 0 Vmin Using the corner outputs of the encoder, the voltage present (can be measured and if necessary increased) according to:
 A, B Incremental output channel A
 C, D Incremental output channel B
 S, S Reference signal
 Pin 1 Plug connector housing (SHld)

Top view of mating side, male contact base

M12 connector, 8-pin, CW
 M23 connector, 12-pin, CW
 M23 connector, 12-pin, CW



Flange with fastening arm
Through hollow shaft

1) ø 1 MM, 7 (0.28) deep
 2) ø 1 MM, 8 (0.31) deep
 3) ø 1 MM
 4) Recommended torque for the clamping ring 2 Nm

Shaft connection to the application

Fastening arm

	L1	L2
70 mm (2.76)	66.74 (2.61 ± 0.01)	65.92 (2.61 ± 0.02)
100 mm (3.94)	96.104 (3.78 ± 0.09)	112.122 (4.41 ± 0.05)
150 mm (5.91)	146.134 (5.75 ± 0.06)	162.172 (6.38 ± 0.11)

1) With a shaft diameter > 32 mm (1.26") the insulation resistance of 2.5 kV cannot be guaranteed.
 2) Pin 1 must be attached to connector housing.

Flange with fastening arm
Through hollow shaft and terminal box (type of connection K)

1) ø 1 MM, 7 (0.28) deep
 2) ø 1 MM, 8 (0.31) deep
 3) ø 1 MM
 4) Recommended torque for the clamping ring 2 Nm

Shaft connection to the application

Fastening arm

	L1	L2
70 mm (2.76)	66.74 (2.61 ± 0.01)	65.92 (2.61 ± 0.02)
100 mm (3.94)	96.104 (3.78 ± 0.09)	112.122 (4.41 ± 0.05)
150 mm (5.91)	146.134 (5.75 ± 0.06)	162.172 (6.38 ± 0.11)

Flange with fastening arm
Through hollow shaft and optical fibre connection (type of connection L)

1) ø 1 MM, 7 (0.28) deep
 2) ø 1 MM, 8 (0.31) deep
 3) ø 1 MM
 4) Recommended torque for the clamping ring 2 Nm

Shaft connection to the application

Fastening arm

	L1	L2
70 mm (2.76)	66.74 (2.61 ± 0.01)	65.92 (2.61 ± 0.02)
100 mm (3.94)	96.104 (3.78 ± 0.09)	112.122 (4.41 ± 0.05)
150 mm (5.91)	146.134 (5.75 ± 0.06)	162.172 (6.38 ± 0.11)

M23 connector

LED display

optical fibre connection

1) With a shaft diameter > 32 mm (1.26") the insulation resistance of 2.5 kV cannot be guaranteed.

Flange with fastening arm
Blind hollow shaft with central fastening, cone, ø 17 (B.47), 1:10

1) ø 1 MM, 7 (0.28) deep
 2) ø 1 MM, 8 (0.31) deep
 3) ø 1 MM

Shaft connection to the application

Fastening arm

	L1	L2
70 mm (2.76)	66.74 (2.61 ± 0.01)	65.92 (2.61 ± 0.02)
100 mm (3.94)	96.104 (3.78 ± 0.09)	112.122 (4.41 ± 0.05)
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