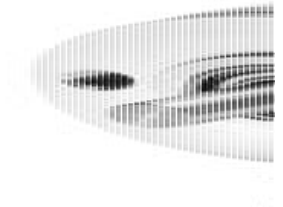


## KUEBLER - INCREMENTAL ENCODER MINIATURE SERIES 2400/2420

2420.1222.0500

INC.ENC 500pp 6mm HSHFT RAD 2M

- House diameter Ø24 mm
- Cable connection 2 metres
- Miniature version.
- Temperature compensation



### PRODUCT DESCRIPTION

Model 2400/2420 is a pulse generator series for industrial applications for confined spaces or where the sensor needs to be lightweight. The models 2400/2420 have a so-called Push-Pull output which means that it can be connected to an input that is either PNP or NPN. Output signals are A, B, 0. They also have inverted signals to be connected to inputs that are adapted for malfunction.

Please refer to the images below for ordering information.

Order code		05.2400		XXXX		XXXX	
Shaft version		Type	a	b	c	d	e
a Flange	1 = ø 24 mm [0.94"]	c Output circuit / power supply	1 = push-pull (without inverted signal) / 5 ... 24 V DC	d Type of connection	1 = axial cable, 2 m [6.56'] PVC	e Pulse rate	4, 6, 8, 10, 16, 20, 25, 36, 40, 50, 60, 80, 100, 120, 125, 180, 200, 250, 300, 360, 400, 500, 512, 1000, 1024 (e.g. 360 pulses => 0360)
	3 = ø 28 mm [1.10"]						
	2 = ø 30 mm [1.18"]						
b Shaft (ø x L)	1 = ø 4 x 10 mm [0.16 x 0.39"]	4 = push-pull (with inverted signal) / 8 ... 30 V DC	2 = push-pull (with inverted signal) / 5 ... 24 V DC	2 = radial cable, 2 m [6.56'] PVC	B = radial cable, special length PVC *)	Stock types	05.2400.1122.0050 05.2400.1122.0360 05.2400.1122.0500 05.2400.1122.1000 05.2400.1122.1024
	3 = ø 5 x 10 mm [0.20 x 0.39"], with flat						
	2 = ø 6 x 10 mm [0.24 x 0.39"]						
4 = ø 1/4" x 10 mm [1/4" x 0.39"], with flat <sup>1)</sup>		*) Available special lengths (connection types A, B):		Optional on request		- other pulse rates	
6 = ø 6 x 10 mm [0.24 x 0.39"], with flat <sup>1)</sup>		3, 5, 8, 10, 15 m [9.84, 16.40, 26.25, 32.80, 49.21']		order code expansion .XXXX = length in dm			
		ex.: 05.2400.122A.1024.0030 (for cable length 3 m)					

Order code  
Hollow shaft

05.2420  
Type

1  
a

X  
b

X  
c

X  
d

XXXX  
e

**a** Flange

**1** =  $\varnothing$  24 mm [0.94"]

**b** Blind hollow shaft  
(insertion depth max. 14 mm [0.55"])

**1** =  $\varnothing$  4 mm [0.16"]

**2** =  $\varnothing$  6 mm [0.24"]

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**4** =  $\varnothing$  1/4" <sup>1)</sup>

**c** Output circuit / power supply

**1** = push-pull (without inverted signal) / 5 ... 24 V DC

**2** = push-pull (with inverted signal) / 5 ... 24 V DC

**3** = push-pull (without inverted signal) / 8 ... 30 V DC

**4** = **push-pull (with inverted signal) / 8 ... 30 V DC**

**d** Type of connection

**1** = **axial cable, 2 m [6.56'] PVC**

A = axial cable, special length PVC \*)

2 = radial cable, 2 m [6.56'] PVC

B = radial cable, special length PVC \*)

\*) Available special lengths (connection types A, B):  
3, 5, 8, 10, 15 m [9.84, 16.40, 26.25, 32.80, 49.21']  
order code expansion .XXXX = length in dm  
ex.: 05.2420.122A.1024.0030 (for cable length 3 m)

**e** Pulse rate

4, 6, 8, 10, 16, 20, 25, 36, 40, 50, 60,  
80, **100**, 120, 125, 180, 200, 250, 300,  
**360**, 400, 500, **512**, **1000**, **1024**  
(e.g. 360 pulses => 0360)

**Stock types**

05.2420.1212.0500

05.2420.1222.0500

05.2420.1222.1000

05.2420.1222.1024

**Optional on request**

- other pulse rates

# TECHNICAL DATA

Connection	Cable
Housing diameter	24 mm
IP class	IP50
Mounting	Hollow shaft
Output	Push/Pull
Pulse max	5000
Resolution	500 pulses/turn
Sensor type	Incremental
Shaft diameter	6 mm
Supply voltage dc max	30 V DC
Supply voltage dc min	5 V DC
Temperature operational max	85 °C
Temperature operational min	-20 °C
Version	Multiturn

