

AWI 40

Incremental shaft encoder for simple industrial applications.
 Easy single-hole mounting.
 Small in size and with high enclosure
 Also available in high-grade steel.



Illustration shows standard enclosure.
 See page 52 for high-grade steel version.

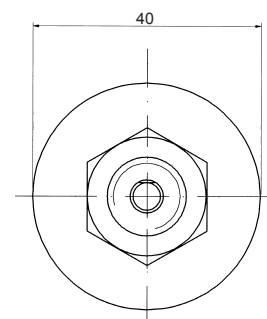
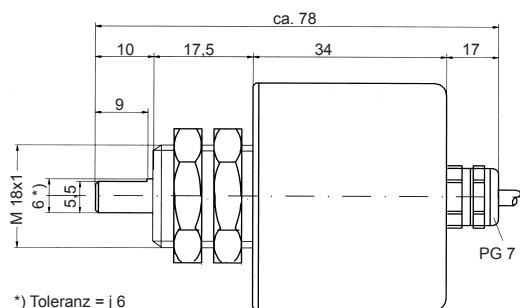
Electrical Specifications:

Max. pulse frequency:	25 kHz
Permissible temp. range:	-20° . . . +60° C
Power supply:	11V . . . 24V DC +15%
Max. current consumption:	- 40 mA (without load)
Max. fan-out:	30 mA (per channel)
Residual ripple:	max. ± 5% U _B
Power supply:	5V DC ± 5%
Max. current consumption:	- 40 mA
Max. fan-out:	30 mA (per channel)

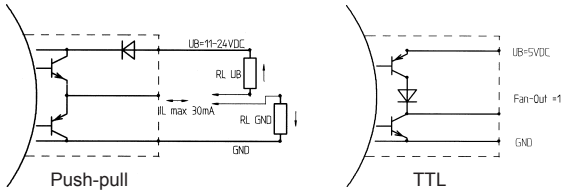
Mechanical Specifications:

Flange/Enclosure:	Aluminium
Shaft:	Stainless steel
Shaft seal:	Oil/Saltwater-resistant
Bearing:	Deep groove ball bearing
Weight:	ca. 0,3 kg
System of protection:	IP 65
Max. speed:	6000 U/min
Torque:	ca. 3 Ncm
Max. shaft load:	axial 5 N radial 5 N

Mechanical Dimensions:



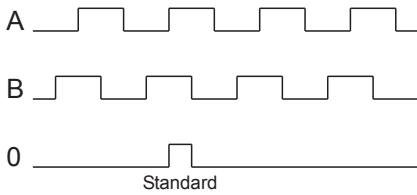
Output Circuits:



Order no.: 1

3

Signal Outputs:



Two square pulse trains offset by 90°el,, with channel A lagging in clockwise rotation.

Reference pulse 0 once per revolution, linked with channel A and B.

C-Version 0-Impuls beliebig
All channels can also be inverted.

Toleranzen (bat 25 kHz):

Phase offset:
90° ±20° el

Pulse duty factor:
180° : 180° ±18° el

Pin configuration:

Typ of connection	00	(Color code acc. DIN 47100)	GND	+ UB	A	B	\bar{A}	\bar{B}	0	$\bar{0}$
„	00	(Color code acc.h DIN 47100)	White	Brown	Green	Yellow			Grey	
„	01		White	Brown	Green	Yellow	Grey	Pink	Blue	Red
„	01		Black	Blue	Brown	Beige			Yellow	
„	01		Black	Blue	Brown	Beige	Yellow	Green	Pink	Violet
„	08, 09		1	2	3	4	(5)		5	
„	10, 11		1	2	3	4	(5)	(6)	5	6

Order No.:

AWI 40 - 0.6 A - Pulse no. 1...500 C with declaration of conformity (pulse numbers on request)

(higher pulse numbers of request)

Enclosure Shaft Signal Output Position of Connection/Typ of connection (see page 63) Output Circuit

S = Standard 06 = 6 mm 1 = A Standard: 1 = Push-pullt 30mA
 E = High-grade steel 2 = A,B A = axial : 00, 01, 08, 09, 10, 11 3 = TTL
 3 = A,B,0
 4 = A, \bar{A}
 5 = A, B / \bar{A} , B
 6 = A, B, 0 / \bar{A} , \bar{B} , $\bar{0}$
 7 = A, 0
 8 = A, 0 / \bar{A} , $\bar{0}$
 9 = A, B, 0, $\bar{0}$

(matching plug with ready made cable upon request)

See page 55 / 56 for mechanical accessories