Series SWI 58

- Incremental rotary encoder with a blind hollow shaft diameter of 6-15 mm
- Housing diameter 58 mm, compact design and high degree of protection up to IP67
- Maximum 5,000 pulses/revolution
- Compact design for highest mechanical requirements
- Direct assembly onto existing shafts
- Accessories from page 78

**Electrical specifications**
- Max. pulse frequency: 100 kHz
- Perm. temperature range: -30°...+70° C
- Power supply: 10 V...30 V DC
- Max. current consumption: 80 mA (without load)
- Max. output load: 30 mA (per channel)
- Residual ripple: max. ±5% Ua
- Power supply: 5 V DC ± 5%
- Max. current consumption: 80 mA (150 mA for Line Driver 75114 or similar)

**Mechanical specifications**
- Flange: Aluminium
- Housing: Zinc die-casting
- Shaft: Stainless steel
- Bearing: Deep groove ball bearing
- Weight: approx 0,4 kg
- Protection type: IP 54
- Max. speed: 6,000 U/min
- Torque: approx 5 Ncm
- Max. shaft load: axial 100 N/radial 100 N

**Mechanical dimensions**

All specifications in millimeters
Output circuits

Signal outputs

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

All channels can also be executed inversely.

Pin configuration

Order reference

Number of pulses 1...5,000 (higher numbers of pulses on request)

Order ref.: 1 2 3 6

S = Standard
08 = 8 mm
10 = 10 mm
12 = 12 mm
15 = 15 mm

Connection type 00
(Colour code according to DIN 47100)
white brown green yellow gray
Connection type 00
(Colour code according to DIN 47100)
white brown green yellow gray pink blue red
Connection type 01 black blue brown beige yellow
Connection type 01 black blue brown beige yellow purple
Connection type 05 1 2 3 4
Connection type 08, 09 1 2 3 4 (5) 5
Connection type 10, 11 1 2 3 4 (5) (6) 5 6
Connection type 12 1 2 3 4 5 6 7 8
Connection type 52 A B C D E F G

Housing Shaft Signal output Connection position/Connection type Output circuit
S = Standard 08 = 8 mm 1 = A
10 = 10 mm 2 = A, B
12 = 12 mm 3 = A, B, 0
15 = 15 mm 4 = A, 0
5 = A, B/Â, 0
6 = A, B, 0/Â, 0
7 = A, 0
8 = A, 0/Â, 0
9 = A, B, 0, 0

Standard
R = radial: 00, 01, 05, 08
09, 10, 11, 12
A = axial: 00, 01, 05, 08,
09, 10, 11, 12

1 = Push-pull 30mA
2 = TTL Line Driver 75114 or sim.
3 = TTL
6 = RS 422
7 = U24 VDC out 5V TTL
8 = Push-pull 100mA
9 = U24 VDC out RS 422

SWI 58 S