

PRI 40A

Optic Rotary Incremental Encoder



Technical Specifications

Resolution	300 to 1250 ppr.
Output Channels	A,B,Z or A,Ā, B,Ā, Z,Z̄
Output Type	Push-Pull, TTL Linedriver, HTL Linedriver
Supply Voltage	5 VDC or 5 - 24 VDC
Power Consumption (without load)	< 40 mA (24 VDC)
Cable	2.5m (standard) 5 wire + Shield (Push-Pull) 2.5m (standard) 8 wire + Shield (Linedriver)
Max. Permissible Shaft Loading Radial	80 N
Max. Speed	3500 rpm
Shaft Diameter	∅4 - 6 mm
Shaft Material	Stainless steel
Case Diameter	∅40 mm
Case Material	Aluminium and painted steel
IP Degree	IP 54
Operating Temperature	-20°C ... +80°C
Storage Temperature	-30°C ... +90°C

PRI 40SH

Optic Rotary Incremental Encoder



Technical Specifications

Resolution	300 to 1250 ppr.
Output Channels	A,B,Z or A,Ā, B,Ā, Z,Z̄
Output Type	Push-Pull, TTL Linedriver, HTL Linedriver
Supply Voltage	5 VDC or 5 - 24 VDC
Power Consumption (without load)	< 40 mA (24 VDC)
Cable	1.5m (standard) 5 wire + Shield (Push-Pull) 1.5m (standard) 8 wire + Shield (Linedriver)
Max. Permissible Shaft Loading Radial	80 N
Max. Speed	3500 rpm
Shaft Diameter	∅6 - 8 mm
Shaft Material	Stainless steel
Case Diameter	∅40 mm
Case Material	Aluminium and painted steel
IP Degree	IP 54
Operating Temperature	-20°C ... +80°C
Storage Temperature	-30°C ... +90°C

PRI 50A

Optic Rotary Incremental Encoder

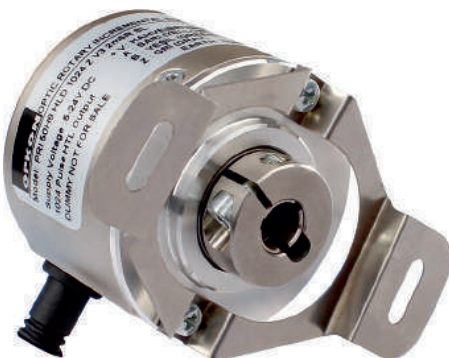


Technical Specifications

Resolution	100 to 5000 ppr.
Output Channels	A,B,Z or A,Ā, B,Ḃ, Z,Z̄
Output Type	Push-Pull, TTL Linedriver, HTL Linedriver
Supply Voltage	5 VDC or 8 - 24 VDC or 5 - 24 VDC
Power Consumption (without load)	< 40 mA (24 VDC)
Cable	2.5m (standard) 5 wire + Shield (Push-Pull) 2.5m (standard) 8 wire + Shield (Linedriver)
Max. Permissible Shaft Loading Radial	100 N
Axial	60 N
Max. Speed	3500 rpm
Shaft Diameter	Ø6 - 8 - 10 mm
Shaft Material	Stainless steel
Case Diameter	Ø50 mm
Case Material	Aluminium and painted steel
IP Degree	IP 54
Operating Temperature	-20°C ... +80°C
Storage Temperature	-30°C ... +90°C

PRI 50SH / H

Optic Rotary Incremental Encoder



Technical Specifications

Resolution	100 to 5000 ppr.
Output Channels	A,B,Z or A,Ā, B,Ḃ, Z,Z̄
Output Type	Push-Pull, TTL Linedriver, HTL Linedriver
Supply Voltage	5 VDC or 8 - 24 VDC or 5 - 24 VDC
Power Consumption (without load)	< 40 mA (24 VDC)
Cable	2.5m (standard) 5 wire + Shield (Push-Pull) 2.5m (standard) 8 wire + Shield (Linedriver)
Max. Permissible Shaft Loading Radial	100 N
Axial	60 N
Max. Speed	3500 rpm
Shaft Diameter	Ø6 - 8 - 10 - 12 - 14 - 15 mm
Shaft Material	Stainless steel
Case Diameter	Ø50 mm
Case Material	Aluminium and painted steel
IP Degree	IP 54
Operating Temperature	-20°C ... +80°C
Storage Temperature	-30°C ... +90°C

PRI 58A / B

Optic Rotary Incremental Encoder



Technical Specifications

Resolution	100 to 5000 ppr.
Output Channels	A,B,Z or A, \bar{A} , B, \bar{B} , Z, \bar{Z}
Output Type	Push-Pull, TTL Linedriver, HTL Linedriver
Supply Voltage	5 VDC or 8 - 24 VDC or 5 - 24 VDC
Power Consumption (without load)	< 40 mA (24 VDC)
Cable	2.5m (standard) 5 wire + Shield (Push-Pull) 2.5m (standard) 8 wire + Shield (Linedriver)
Max. Permissible Shaft Loading Radial	60 N
Axial	40 N
Max. Speed	3500 rpm
Shaft Diameter	Ø6 - 8 - 10 mm
Shaft Material	Stainless steel
Case Diameter	Ø58 mm
Case Material	Aluminium and painted steel
IP Degree	IP 54
Operating Temperature	-20°C ... +80°C
Storage Temperature	-30°C ... +90°C

PRI 58SH / H

Optic Rotary Incremental Encoder



Technical Specifications

Resolution	100 to 5000 ppr.
Output Channels	A,B,Z or A, \bar{A} , B, \bar{B} , Z, \bar{Z}
Output Type	Push-Pull, TTL Linedriver, HTL Linedriver
Supply Voltage	5 VDC or 8 - 24 VDC or 5 - 24 VDC
Power Consumption (without load)	< 40 mA (24 VDC)
Cable	2.5m (standard) 5 wire + Shield (Push-Pull) 2.5m (standard) 8 wire + Shield (Linedriver)
Max. Permissible Shaft Loading Radial	60 N
Axial	40 N
Max. Speed	3500 rpm
Shaft Diameter	Ø6 - 8 - 10 - 12 - 14 - 15 mm
Shaft Material	Stainless steel
Case Diameter	Ø58 mm
Case Material	Aluminium and painted steel
IP Degree	IP 54
Operating Temperature	-20°C ... +80°C
Storage Temperature	-30°C ... +90°C

PRI 80

Optic Rotary Incremental Encoder



Technical Specifications

Resolution	1024 ppr.
Output Channels	A,B,Z or $\bar{A}, \bar{A}, \bar{B}, \bar{B}, \bar{Z}, \bar{Z}$
Output Type	Push-Pull, TTL Linedriver, HTL Linedriver
Supply Voltage	5 VDC or 8 - 24 VDC or 5 - 24 VDC
Power Consumption (without load)	< 40 mA (24 VDC)
Cable	2.5m (standard) 5 wire + Shield (Push-Pull) 2.5m (standard) 8 wire + Shield (Linedriver)
Max. Permissible Shaft Loading Radial	180 N
Axial	80 N
Max. Speed	3500 rpm
Shaft Diameter	Ø16 - 20 - 22 - 24 - 25 - 28 - 30 - 40 - 42mm
Shaft Material	Aluminium
Case Diameter	Ø80 mm
Case Material	Aluminium and painted steel
IP Degree	IP 50
Operating Temperature	-20°C ... +80°C
Storage Temperature	-30°C ... +90°C

PRI 100

Optic Rotary Incremental Encoder



Technical Specifications

Resolution	1024 ppr.
Output Channels	A,B,Z or $\bar{A}, \bar{A}, \bar{B}, \bar{B}, \bar{Z}, \bar{Z}$
Output Type	Push-Pull, TTL Linedriver, HTL Linedriver
Supply Voltage	5 VDC or 8 - 24 VDC or 5 - 24 VDC
Power Consumption (without load)	< 40 mA (24 VDC)
Cable	2.5m (standard) 5 wire + Shield (Push-Pull) 2.5m (standard) 8 wire + Shield (Linedriver)
Max. Permissible Shaft Loading Radial	180 N
Axial	80 N
Max. Speed	3500 rpm
Shaft Diameter	Ø25 - 28 - 30 - 35 - 38 - 40 - 42 mm
Shaft Material	Aluminium
Case Diameter	Ø100 mm
Case Material	Aluminium and painted steel
IP Degree	IP 50
Operating Temperature	-20°C ... +80°C
Storage Temperature	-30°C ... +90°C

ERC 10 BISS / SSI

BISS / SSI Interface Encoder



Technical Specifications

Interface	BISS / SSI (up to 10 Mhz)
Clock input	via full duplex I.C
Clock frequency	20 kHz up to 10 Mhz
Data output driver	RS485 transceiver type
Data output code	gray or binary
Supply voltage	5 - 20 VDC \pm 5%
Current consumption	130 mA max.
Resolution	13 bit (up to 21 for BISS)
Output circuit	BISS / SSI interface
Pulse frequency	< 200 kHz
Working principal	optical
Accuracy	<2048 / \pm 40°
Incremental channels	A, A inv. B, B inv. (sine 1 Vpp)
Flange	special motor feedback flange
Case diameter	Ø56 mm
Shaft diameter	Cone 1/10
Shaft axial / radial loading	30 N max.
Starting torque	0,17 Ncm min.
Electrical connections	18 pin pcb type connector or DB15 connector with 20 cm cable (standard)
Weight	340 gr. (without cable)
Shock	100 g, 5 ms
Vibrations	10 g, 5-2000 Hz
Protection	IP 47
Operating temperature range	-20°C ... +85°C
Storage temperature range	-20°C ... +85°C



ERC 10 SINE

Servo Motor Feedback Absolute Encoder



Technical Specifications

Supply voltage	5 - 20 VDC $\pm 5\%$
Current consumption (without load)	130 mA max. (without load)
Resolution	2048 ppr.
Output circuit	Analogue
Pulse frequency	< 200 kHz
Working principle	Optical
Accuracy	<2048 / $\pm 40''$
Incremental channels	A, A inv. B, B inv. / 2048 ppr. (sine 1 Vpp)
Absolute channels	C, C inv. D, D inv. / 1 ppr. (sine 1 Vpp)
Flange	Special motor feedback flange
Case diameter	$\varnothing 56$ mm
Shaft diameter	cone 1/10
Shaft axial / radial loading	30 N max.
Starting torque	0,17 Ncm min.
Electrical connections	18 pin pcb type connector or DB15 connector with 20 cm cable (standard)
Weight	340 gr. (without cable)
Shock	100 g, 5 ms
Vibrations	10 g, 5-2000 Hz
Protection	IP 47
Operating temperature range	-20°C +85°C
Storage temperature range	-20°C +85°C



WORLDWIDE SALES NETWORK



Headquarter **R&D , Production**

Opkon Optik Elektronik
Kontrol Sanayi ve Ticaret A.Ş.
Terazidere Mah. 29 Ekim Cad. No:34
Bayrampaşa / İstanbul / TÜRKİYE

Phone : +90 (212) 501 48 63
Fax : +90 (212) 501 48 83
Web : www.opkon.com.tr
E-mail : export@opkon.com.tr

Germany **Subsidiary**

Sensormarket GmbH
Graeffstrasse .5,
50823 Köln/GERMANY

Phone : +49 22159495400
Fax : +49 22159495402
Web : www.sensormarket.eu
E-mail : sales@sensormarket.eu

China **Subsidiary**

Danzi Sense Technology
(Shanghai) Co., Ltd.
Room 123 -B, F/1, No. 1000 Ziyue Road,
Minhang District, 200240 Shanghai CHINA

Hotline: 400 8050 889
Phone : 021-64091719
Fax : 021-64091713
Web : www.danzisensors.com.cn
E-mail : marketing@opkonchina.com