

OVERVIEW

Series 59



- Size 25
- 2.5" Diameter
- Synchro Flange
- 10,000 PPR Max.

Series 60



- Size 25
- 2.5" Diameter
- Square Flange
- 10,000 PPR Max.

Series 61



- Rugged
- Short Housing
- Clamping Flange
- 10,000 PPR max.

Series 63



- Economical
- Synchro Flange
- 10,000 PPR max.

Specifications

Electrical		Electrical		Electrical		Electrical		Electrical	
Light Source		Lamp (LED)		Lamp (LED)		Lamp (LED)		Lamp (LED)	
Resolution		10,000 PPR max.		10,000 PPR max.		10,000 PPR max.		10,000 PPR max.	
Scanning frequency		150kHz / 300kHz		150kHz / 300kHz		150kHz / 300kHz		150kHz / 300kHz	
Output Stage									
5V		TTL Differential line driver (TTL Single ended) (TTL Complementary)		TTL Differential line driver (TTL Single ended) (TTL Complementary)		TTL Differential line driver (TTL Single ended) (TTL Complementary)		TTL Differential line driver (TTL Single ended) (TTL Complementary)	
15V		(CMOS Diff. line driver)		(CMOS Diff line driver)		(CMOS Diff line driver)		(CMOS Diff line driver)	
10-30V		Push-pull		Push-pull		Push-pull		Push-pull	
Connection									
Cable		Radial or Axial		Radial or Axial		Axial		Radial or Axial	
Connector		(Radial or Axial)		(Radial or Axial)		Radial or Axial		Radial or Axial	
Cable with connector		Radial or Axial		Radial or Axial		Axial		Radial or Axial	
Mechanical		Mechanical		Mechanical		Mechanical		Mechanical	
Shaft or Bore Diameter		0.375 inch		0.375 inch		10mm		6mm or 10mm	
Shaft Load	Axial Radial	2.25 lbs. (11.2 lbs.) 4.5 lbs. (168 lbs.)		2.25 lbs. (11.2 lbs.) 4.5 lbs. (168 lbs.)		2.25 lbs. (11.2 lbs.) 4.5 lbs. (168 lbs.)		2.25 lbs. (11.2 lbs.) 4.5 lbs. (168 lbs.)	
Slew Speed		12,000 RPM		12,000 RPM		12,000 RPM		12,000 RPM	
Disc Material		Glass (Hardened Glass) (Metal)		Glass (Hardened Glass) (Metal)		Glass (Hardened Glass) (Metal)		Glass (Hardened Glass) (Metal)	
Environmental		Environmental		Environmental		Environmental		Environmental	
Operating Temperature		0 to 70°C (-42 to 110°C)		0 to 70°C (-42 to 110°C)		0 to 70°C (-42 to 110°C)		0 to 70°C (-42 to 110°C)	
Shock		200 G's		200 G's		200 G's		200 G's (500 G's)	
Vibration		20 G's		20 G's		20 G's		20 G's	
Enclosure Rating		IP65 (IP67)		IP65 (IP67)		IP65 (IP67)		IP65 (IP67)	

Note: () - Encoder Option

Series 64



- Compact
- Light weight
- Synchro Flange
- 2,500 PPR max.

Series 83



- Dual Track
- Synchro Flange
- High Resolution

Series 86



- Hollow Shaft
- 6mm to 15mm Bore
- Clamping Flange
- 10,000 PPR max.

Series 87



- Hollow Shaft
- 15mm to 27mm Bore
- Clamping Flange
- 10,000 PPR max.

Series 91



- Hollow Shaft
- 6mm to 12mm bore
- Mounting Flange
- 10,000 PPR max.

Electrical
LED
2,500 PPR max.
150kHz / 300kHz
-
TTL Complementary
-
Push-pull
Axial
-
Axial

Electrical
Lamp
Track 1 6,500 PPR max Track 2 10,000 PPR max.
150kHz / 300kHz
TTL Differential line driver
-
-
Push-pull
Axial
-
Axial

Electrical
Lamp (LED)
10,000 PPR max.
150kHz / 300kHz
TTL Differential line driver
-
-
Push-pull
Radial
-
Radial

Electrical
Lamp (LED)
10,000 PPR max.
150kHz / 300kHz
TTL Differential line driver
-
-
Push-pull
Radial
-
Radial

Electrical
Lamp (LED)
10,000 PPR max.
150kHz / 300kHz
TTL Differential line driver
TTL Single ended
TTL Complementary
(CMOS Diff. line driver)
Push-pull
Radial
-
Radial

Mechanical
6mm
2.25 lbs
4.5 lbs
12,000 RPM
Glass (Hardened Glass)
(Metal)

Mechanical
6mm or 10mm
2.25 lbs
4.5 lbs
12,000 RPM
Glass
-

Mechanical
6mm to 15mm
2.25 lbs
4.5 lbs
12,000 RPM
Glass
-

Mechanical
15mm to 27mm
2.25 lbs
4.5 lbs.
6,000 RPM
Glass (Hardened Glass)
-

Mechanical
2.25 lbs (11.2 lbs.)
4.5 lbs (168 lbs.)
12,000 RPM
Glass (Hardened Glass)
(Metal)

Environmental
0 to 70°C
200 G's
20 G's
I65 (IP67)

Environmental
0 to 70°C
200 G's
20 G's
IP65 (IP67)

Environmental
0 to 70°C
200 G's
20 G's
IP54

Environmental
0 to 70°C
200 G's
20 G's
IP00 (IP54)

Environmental
0 to 70°C (-42° to 110°C)
200 G's
20 G's
IP65

Note: () - Encoder option