Series H incremental shaft encoder up to 12 mm

H B X X - 1 3 X X - X X X X

|____| Shaft Size | | Resolution - ppr

| K2 = 6 x 10 mm | Exit

| K4 = 10 x 20 mm | A = Axial

| K5 = 12 x 20 mm | R = Radial

| Connection

IP Rating — 1 = 2m cable

HA = IP54 — 2 = 5m cable

HB = IP65 (standard) — G = 9418 8 pin plug & socket

H = 9512 12 pin plug & socket

5...24 Volt Extended Line Driver is standard, optional Current Sink Open Collector is available

Technical Data

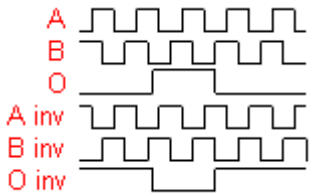
Operating temp:	- 20 ...+ 60 degrees C
	- 4 ...+ 140 degrees F
On request:	- 40 degrees
Max frequency:	150 kHz
Current consumption:	50 mA (max.)
Power supply:	5 - 24V
Weight:	21 oz (0.6 kg)
Protection:	IP 65 (IP54 available)
Housing:	Aluminum
Shaft:	Stainless Steel
Bearings:	2 x 6001 - (Z) (RS)
Torque:	0.7 oz/in (5 N-cm)
Humidity:	Up to 98% permissible
Speed:	6000 RPM max.
Shock:	10g (6msec)
Vibration:	5g (500 Hz)
Shaft load:	Radial / Axial 10 N
Line driver output max:	50 mA per channel
Max. ppr	5000
Inertia:	30 gm-cm^2

Connection Options

	Cable	**12 pin**
PS GND	Black	1
PS 5 ... 24 V	Red	2
Output A	White	3
Output B	Blue	4
Output O	Yellow	5
Output A inv	Green	6
Output B inv	Violet	7
Output O inv	Brown	8

Output

Diagram is shown with clockwise shaft rotation viewed from shaft end



Certifications

To use the encoder in a hazardous area, ***a safety barrier or galvanic isolator has to be used***. Our six channel barrier and isolator work with our encoders.

IP 54 or 65
SIRA - N / 520 / 3618 / 4
IM1 EEx (ia) I
II1G EEx (ia) IIB T4
SIRA 02ATEX2317X
UL E216028

Mounting Instructions

Hook up the encoder with the connections as described. Make sure power supply meets specifications. Attach encoder to mounting bracket as shown. Attach shaft using a flexible coupling.

Dimensions