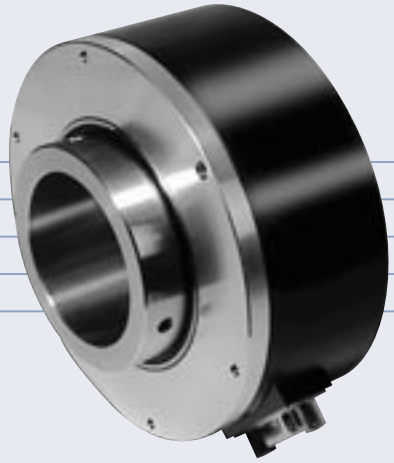
# IH 103

*INCREMENTAL HOLLOW SHAFT ENCODER*

- Very Heavy Duty Construction
- Shaft Mounted
- Range of shaft bores (30 – 40 mm)
- 50000 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 300 kHz Maximum Frequency



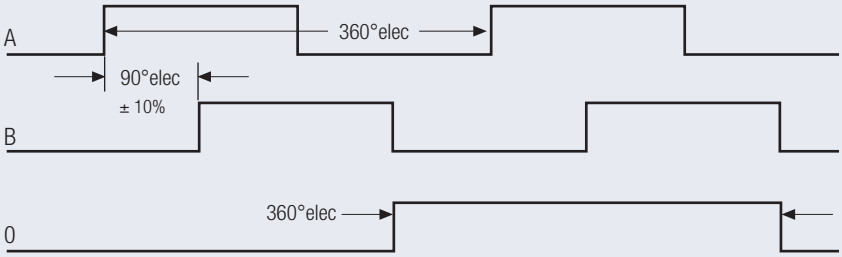
## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Supply Voltage | 4.75-30 V DC |
| Current Consumption | 40 mA (max) |
| Output Circuit | Push-Pull, RS 422A |
| Impulse Frequency | 300 kHz (max) |
| Logic Level (high) | Vcc - 0.7 Volt |
| Logic Level (low) | 0.25 Volt (max) |
| Short Circuit Protection | 100 % |

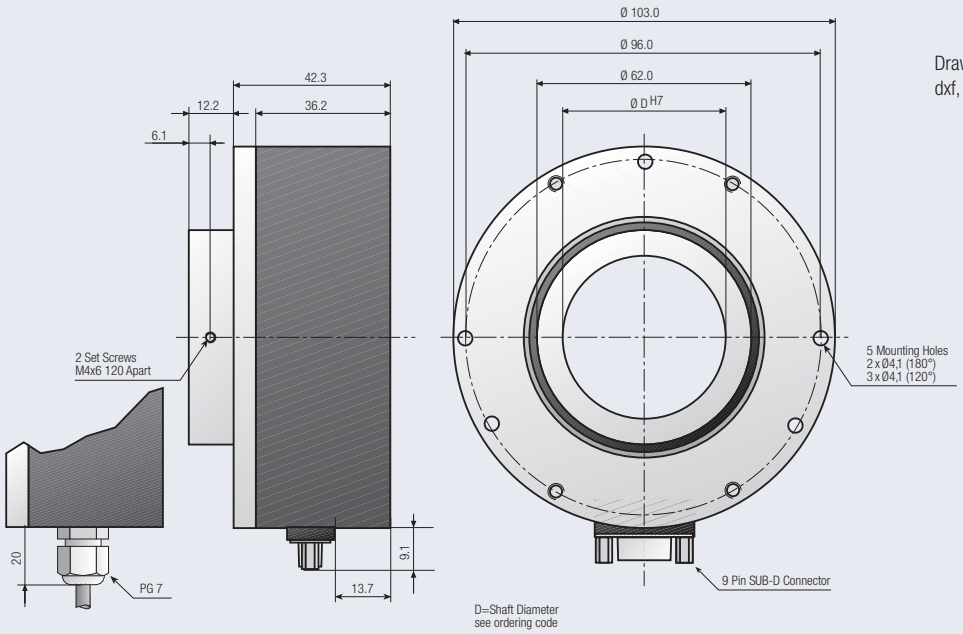
## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| Cover | Aluminium |
| Body | Aluminium |
| Shaft | Stainless Steel |
| Speed | 6000 RPM (max) |
| Torque | > 0.2 Nm |
| Loading | Axial 60 N, Radial 80 N |
| Protection | IP 65 |
| Temperature | -20˚...+70˚ C (-4˚...+158˚ F) |
| | +100˚ C (+212˚ F) Optional |
| Weight | 1.584 lb (720 g) |

## OUTPUT SIGNALS




A Leads B in the CW Direction (facing shaft)
Complimentary channel also available




Drawing available as:
dxf, iges, step, sld file

## ORDERING CODE

| IH | 103 | - | | | | | | | - | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a | b | | c | d | e | f | g | h | | Pulses Per Revolution | | | | |

a **Group Function**
IH=Incremental Hollow Shaft

b **Basic Series Number**
103

c **Shaft Size D**
26=26 mm 44=44mm
AQ=1.5" AR=1.625"

d **Mechanical Options**
0=None

**Note:** Special functions and designs will be designated by a 4 digit code at the end of the part number. Consult factory for further details

**e Connector Type**
0=2 mtr. (6ft.) Cable
6=9 Pin Sub D 7=12 Pin

f **Connector Location**
R=Radial

g **Output Signals**
3=A+B+0
6=A+B+0+Compliments

h **Output Circuit Type**
3=Push Pull 4.75 to 30 VDC

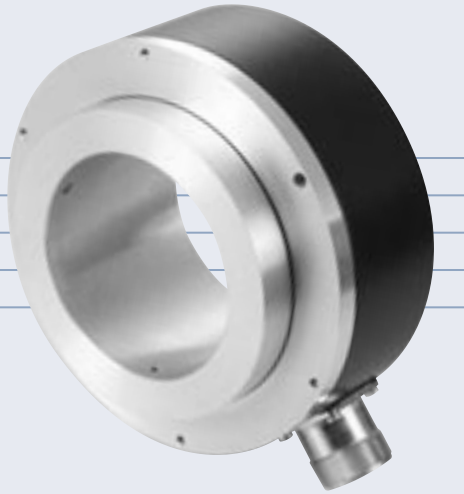
## CONNECTIONS

| Function | Cable Colour Code | 9 Pin Connector | 12 Pin Connector |
|---|---|---|---|
| 0 Volt | white | 1 | 1 |
| + Volt | brown | 2 | 2 |
| A | green | 3 | 3 |
| B | yellow | 4 | 4 |
| 0 | grey | 5 | 5 |
| $\bar{A}$ | pink | 6 | 6 |
| $\bar{B}$ | blue | 7 | 7 |
| $\bar{0}$ | red | 8 | 8 |

# IH 120

*INCREMENTAL HOLLOW SHAFT ENCODER*

- Very Heavy Duty Construction
- Shaft Mounted
- Range of shaft bores (40 – 65 mm)
- 50000 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 300 kHz Maximum Frequency



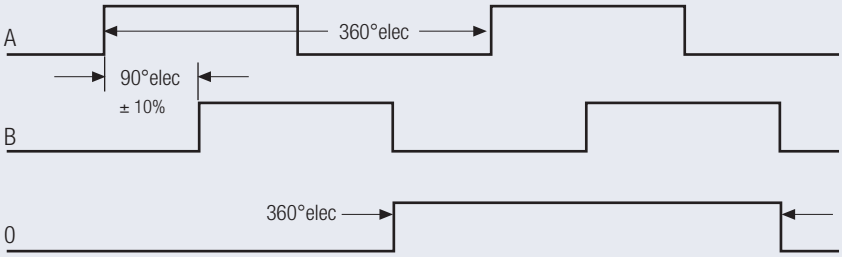
## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Supply Voltage | 4.75-30 V DC |
| Current Consumption | 40 mA (max) |
| Output Circuit | Push-Pull, RS 422A |
| Impulse Frequency | 300 kHz (max) |
| Logic Level (high) | Vcc - 0.7 Volt |
| Logic Level (low) | 0.25 Volt (max) |
| Short Circuit Protection | 100 % |

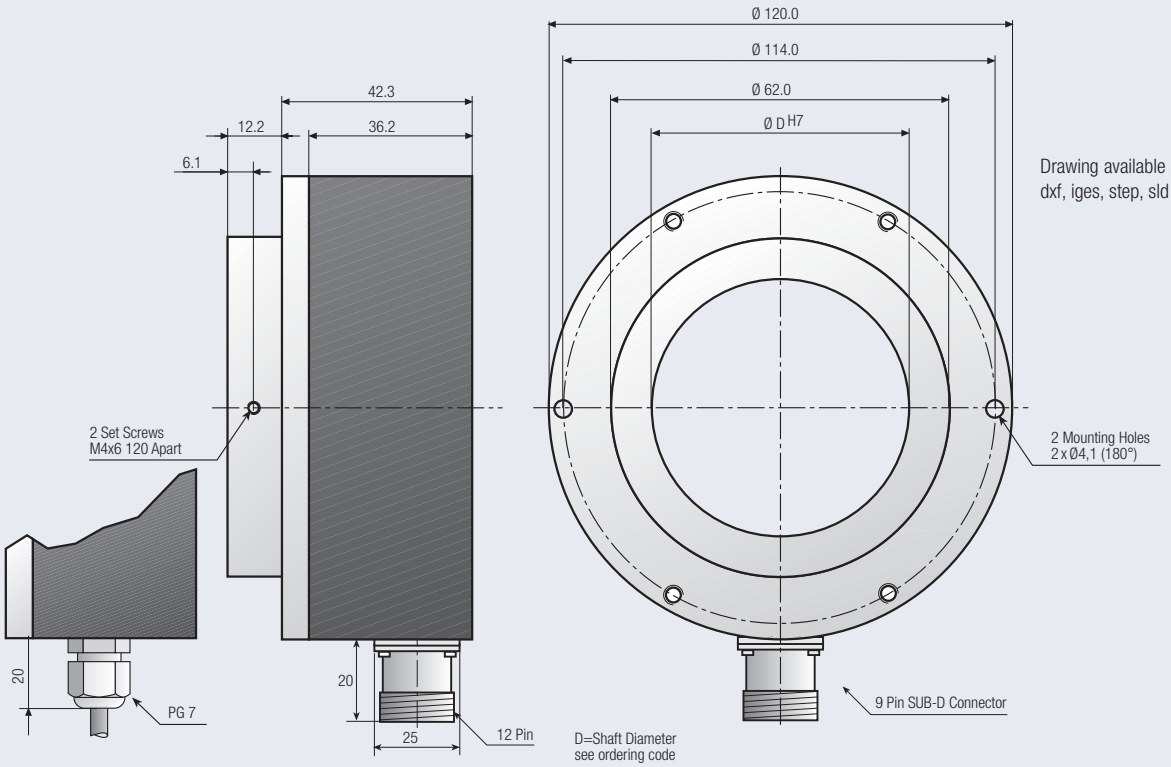
## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| Cover | Aluminium |
| Body | Aluminium |
| Shaft | Stainless Steel |
| Speed | 4000 RPM (max) |
| Torque | > 0.2 Nm |
| Loading | Axial 60 N, Radial 80 N |
| Protection | IP 54 |
| Temperature | -20˚...+70˚ C (-4˚...+158˚ F) |
| | +100˚ C (+212˚ F) Optional |
| Weight | 1.584 lb (720 g) |

## OUTPUT SIGNALS




A Leads B in the CW Direction (facing shaft)
Complimentary channel also available




Drawing available as:
dxf, iges, step, sld file

## ORDERING CODE

| IH | 120 | - | | | | | | | - | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a | b | | c | d | e | f | g | h | | Pulses Per Revolution | | | | |

a **Group Function**
IH=Incremental Hollow Shaft

b **Basic Series Number**
120

c **Shaft Size D**
65=65 mm (max)
AY=2.5″ (max)

d **Mechanical Options**
0=None

**Note:** Special functions and designs will be designated by a 4 digit code at the end of the part number. Consult factory for further details

e **Connector Type**
0=2 mtr. (6ft.) Cable
6=9 Pin Sub D
7=12 Pin

f **Connector Location**
R=Radial

g **Output Signals**
3=A+B+0
6=A+B+0+Compliments

h **Output Circuit Type**
3=Push Pull 4.75 to 30 VDC

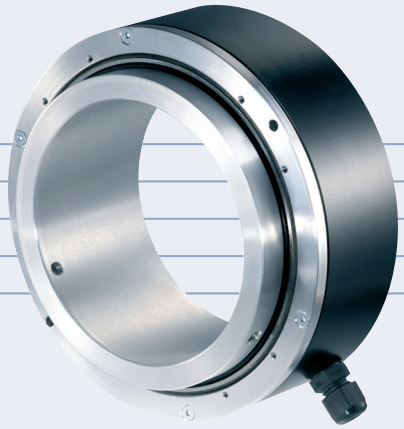
## CONNECTIONS

| Function | Cable Colour Code | 9 Pin Connector | 12 Pin Connector |
|---|---|---|---|
| 0 Volt | white | 1 | 1 |
| + Volt | brown | 2 | 2 |
| A | green | 3 | 3 |
| B | yellow | 4 | 4 |
| 0 | grey | 5 | 5 |
| $\bar{A}$ | pink | 6 | 6 |
| $\bar{B}$ | blue | 7 | 7 |
| $\bar{0}$ | red | 8 | 8 |

# IH 150

*INCREMENTAL HOLLOW SHAFT ENCODER*

- Very Heavy Duty Construction
- Shaft Mounted
- Range of shaft bores (65 – 100 mm)
- 50000 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 300 kHz Maximum Frequency



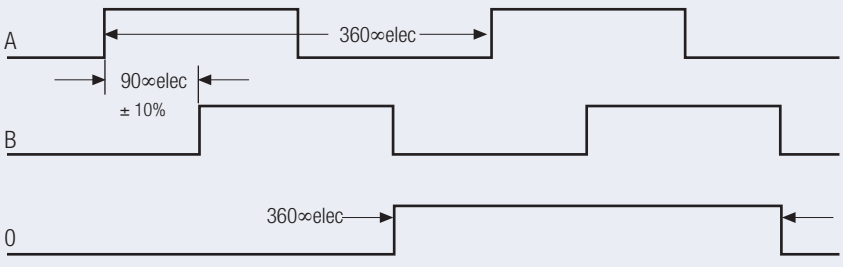
## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Supply Voltage | 4.75-30 V DC |
| Current Consumption | 40 mA (max) |
| Output Circuit | Push-Pull, RS 422A |
| Impulse Frequency | 300 kHz (max) |
| Logic Level (high) | Vcc - 0.7 Volt |
| Logic Level (low) | 0.25 Volt (max) |
| Short Circuit Protection | 100 % |

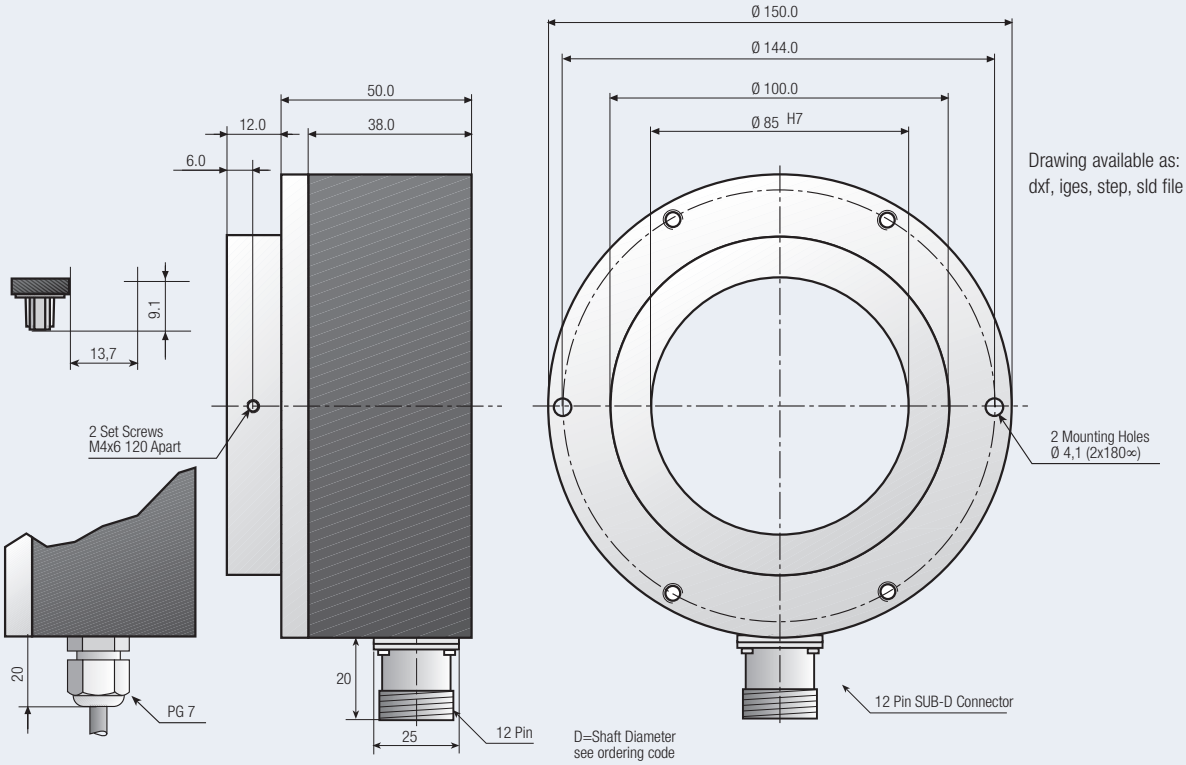
## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| Cover | Aluminium |
| Body | Aluminium |
| Shaft | Stainless Steel |
| Speed | 4000 RPM (max) |
| Torque | > 0.2 Nm |
| Loading | Axial 60 N, Radial 80 N |
| Protection | IP 54 |
| Temperature | -20˚...+70˚ C (-4˚...+158˚ F) |
| | +100˚ C (+212˚ F) Optional |
| Weight | 2.160 lb (980 g) |

## OUTPUT SIGNALS




A Leads B in the CW Direction (facing shaft)
Complimentary channel also available




Drawing available as:
dxf, iges, step, sld file

## ORDERING CODE

| IH | 150 | - | | | | | | | | - | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a | b | | c | d | e | f | g | h | | | Pulses Per Revolution | | | | |

a **Group Function**
IH=Incremental Hollow Shaft

b **Basic Series Number**
150

c **Shaft Size D**
65=65 mm (max)
AY=2.5″ (max)

d **Mechanical Options**
0=None

**Note:** Special functions and designs will be designated by a 4 digit code at the end of the part number. Consult factory for further details

e **Connector Type**
0=2 mtr. (6ft.) Cable
6=9 Pin Sub D
7=12 Pin

f **Connector Location**
R=Radial

g **Output Signals**
3=A+B+0
6=A+B+0+Compliments

h **Output Circuit Type**
3=Push Pull 4.75 to 30 VDC

## CONNECTIONS

| Function | Cable Colour Code | 9 Pin Connector | 12 Pin Connector |
|---|---|---|---|
| 0 Volt | white | 1 | 1 |
| + Volt | brown | 2 | 2 |
| A | green | 3 | 3 |
| B | yellow | 4 | 4 |
| 0 | grey | 5 | 5 |
| $\bar{A}$ | pink | 6 | 6 |
| $\bar{B}$ | blue | 7 | 7 |
| $\bar{0}$ | red | 8 | 8 |

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# IH 490

*INCREMENTAL HOLLOW SHAFT ENCODER*

- Compact Construction
- Shaft Mounted
- 3600 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 100 kHz Maximum Frequency

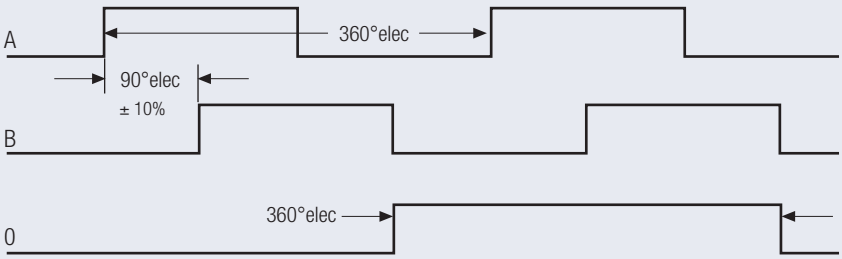
## *ELECTRICAL SPECIFICATIONS*

| | |
|---|---|
| Supply Voltage | 4.75-30 V DC |
| Current Consumption | 40 mA (max) |
| Output Circuit | Push-Pull, RS 422A |
| Impulse Frequency | 100 kHz (max) |
| Logic Level (high) | Vcc - 0.7 Volt |
| Logic Level (low) | 0.25 Volt (max) |
| Short Circuit Protection | 100 % |

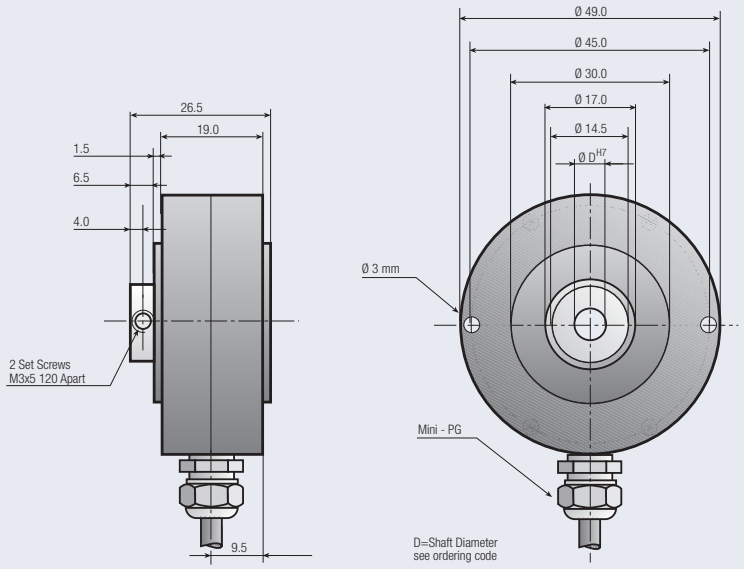
## *MECHANICAL SPECIFICATIONS*

| | |
|---|---|
| Cover | Aluminium |
| Body | Aluminium |
| Shaft | Stainless Steel |
| Speed | 6000 RPM (max) |
| Torque | > 0.04 Nm |
| Loading | Axial 20 N, Radial 15 N |
| Protection | IP 65 |
| Temperature | -20˚... +70˚ C (-4˚... +158˚ F) |
| Weight | 0.29 lb (130 g) |

## *OUTPUT SIGNALS*




A Leads B in the CW Direction (facing shaft)
Complimentary channel also available




Drawing available as:
dxf, iges, step, sld file

## ORDERING CODE

| IH | 490 | - | | | | | | | | - | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a | b | | c | d | e | f | g | h | | | Pulses Per Revolution | | | | |

a **Group Function**
IH=Incremental Hollow Shaft

b **Basic Series Number**
490

c **Shaft Size D**
06=6 mm
AA=1/4“

d **Mechanical Options**
0=None

e **Connector Type**
0=2 mtr. (6ft.) Cable

f **Connector Location**
R=Radial

g **Output Signals**
3=A+B+0
6=A+B+0+Compliments

h **Output Circuit Type**
3=Push Pull 4.75 to 30 VDC

**Note:** Special functions and designs will be designated by a 4 digit code at the end of the part number. Consult factory for further details

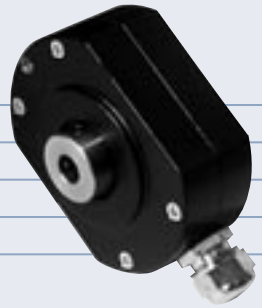
## CONNECTIONS

| Function | Cable Colour Code |
|---|---|
| 0 Volt | white |
| + Volt | brown |
| A | green |
| B | yellow |
| 0 | grey |
| $\bar{A}$ | pink |
| $\bar{B}$ | blue |
| $\bar{0}$ | red |

# IH 510

*INCREMENTAL HOLLOW SHAFT ENCODER*

- Compact Construction
- Shaft Mounted
- 1250 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 200 kHz Maximum Frequency



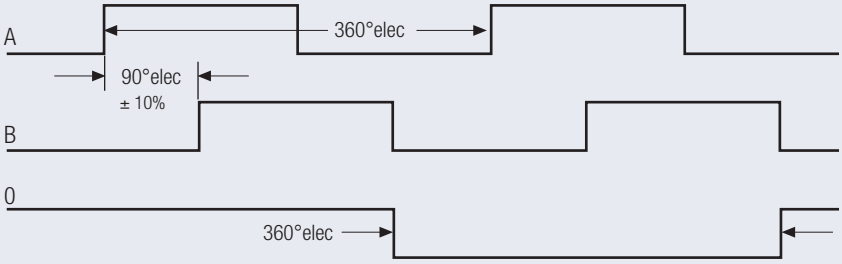
## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Supply Voltage | 4.75-30 V DC |
| Current Consumption | 40 mA (max) |
| Output Circuit | Push-Pull, RS 422A |
| Impulse Frequency | 200 kHz (max) |
| Logic Level (high) | Vcc - 0.7 Volt |
| Logic Level (low) | 0.25 Volt (max) |
| Short Circuit Protection | 100 % |

## MECHANICAL SPECIFICATIONS

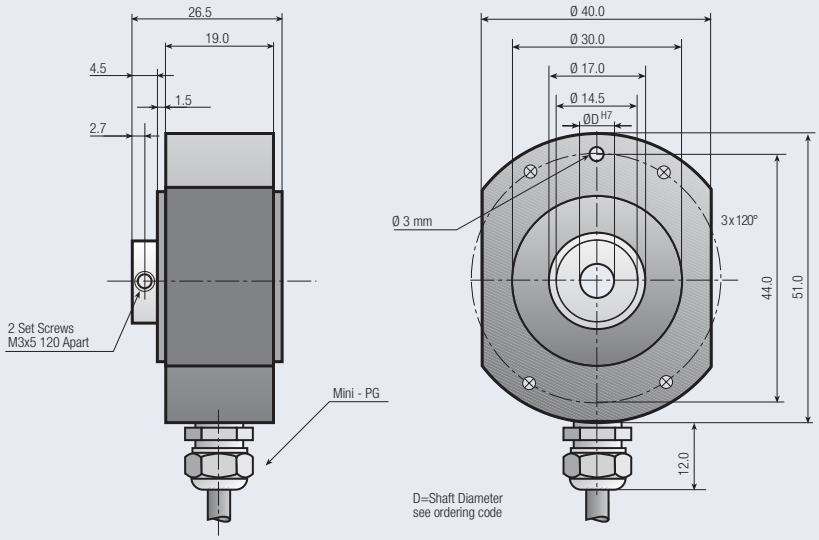
| | |
|---|---|
| Cover | Aluminium |
| Body | Aluminium |
| Shaft | Stainless Steel |
| Speed | 6000 RPM (max) |
| Torque | > 0.04 Nm |
| Loading | Axial 20 N, Radial 15 N |
| Protection | IP 65 |
| Temperature | -20˚...+70˚ C (-4˚...+158˚ F) |
| Weight | 0.29 lb (130 g) |

## OUTPUT SIGNALS




A Leads B in the CW Direction (facing shaft)
Complimentary channel also available

Drawing available as:
dxf, iges, step, sld file




## ORDERING CODE

| IH | 510 | - | | | | | | | | - | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a | b | | c | d | e | f | g | h | | | Pulses Per Revolution | | | | |

| | | | |
|---|---|---|---|
| a | **Group Function**<br>IH=Incremental Hollow Shaft | e | **Connector Type**<br>0=2 mtr. (6ft.) Cable |
| b | **Basic Series Number**<br>510 | f | **Connector Location**<br>R=Radial |
| c | **Shaft Size D**<br>06=6 mm<br>AA=1/4“ | g | **Output Signals**<br>3=A+B+0<br>6=A+B+0+Compliments |
| d | **Mechanical Options**<br>0=None | h | **Output Circuit Type**<br>3=Push Pull 4.75 to 30 VDC |

**Note:** Special functions and designs will be designated by a 4 digit code at the end of the part number. Consult factory for further details

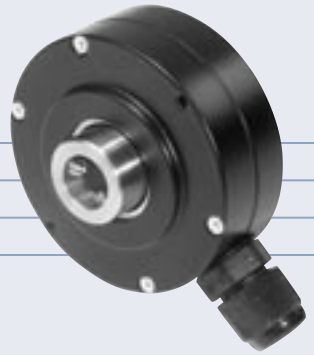
## CONNECTIONS

| Function | Cable Colour Code |
|---|---|
| 0 Volt | white |
| + Volt | brown |
| A | green |
| B | yellow |
| 0 | grey |
| $\bar{A}$ | pink |
| $\bar{B}$ | blue |
| $\bar{0}$ | red |

# IH 581

*INCREMENTAL HOLLOW SHAFT ENCODER*

- Industry Standard Size 25
- Shaft Mounted
- 10000 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 200 kHz Maximum Frequency



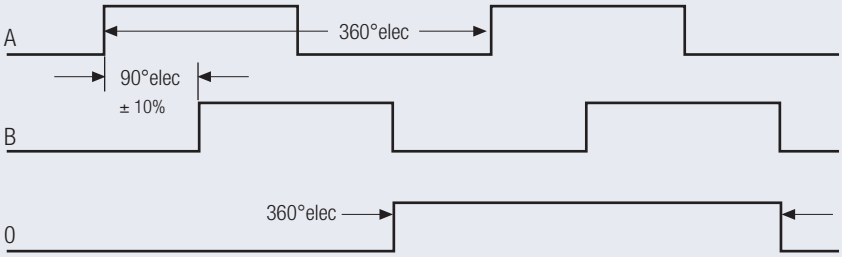
## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Supply Voltage | 4.75-30 V DC |
| Current Consumption | 40 mA (max) |
| Output Circuit | Push-Pull, RS 422A |
| Impulse Frequency | 200 kHz (max) |
| Logic Level (high) | Vcc - 0.7 Volt |
| Logic Level (low) | 0.25 Volt (max) |
| Short Circuit Protection | 100 % |

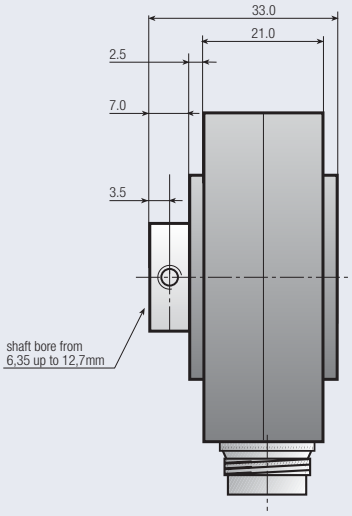
## MECHANICAL SPECIFICATIONS

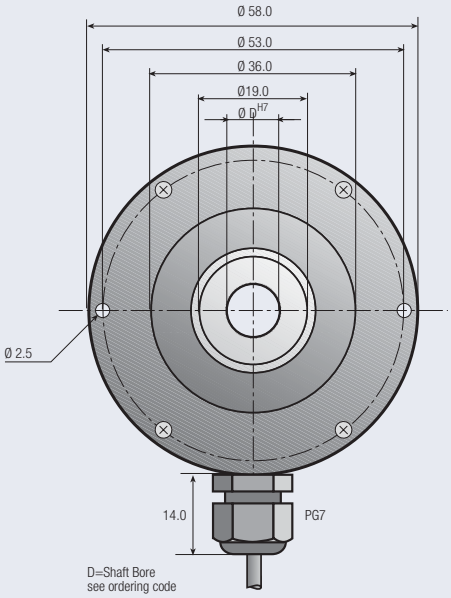
| | |
|---|---|
| Cover | Aluminium |
| Body | Aluminium |
| Shaft | Stainless Steel |
| Speed | 6000 RPM (max) |
| Torque | > 0.04 Nm |
| Loading | Axial 20 N, Radial 15 N |
| Protection | IP 65 |
| Temperature | -20˚...+70˚ C (-4˚...+158˚ F) |
| | +100˚ C (+212˚ F) Optional |
| Weight | 0.55 lb (250 g) |

## OUTPUT SIGNALS




A Leads B in the CW Direction (facing shaft)
Complimentary channel also available




Drawing available as:
dxf, iges, step, sld file

## ORDERING CODE

| IH | 581 | - | | | | | | | | - | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a | b | | c | d | e | f | g | h | | | Pulses Per Revolution | | | | |

a **Group Function**
IH=Incremental Hollow Shaft

b **Basic Series Number**
581

c **Shaft Size D**
06=6 mm 10=10 mm 12=12mm
AB=3/8“ AC=1/2“

d **Mechanical Options**
0=None

**Note:** Special functions and designs will be designated by a 4 digit code at the end of the part number. Consult factory for further details

e **Connector Type**
0=2 mtr. (6ft.) Cable
J=8 Pin

f **Connector Location**
R=Radial

g **Output Signals**
3=A+B+0
6=A+B+0+Compliments

h **Output Circuit Type**
3=Push Pull 4.75 to 30 VDC

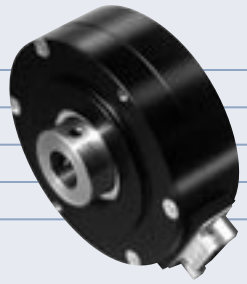
## CONNECTIONS

| Function | Cable Colour Code | 12 Pin Connector |
|---|---|---|
| 0 Volt | white | 1 |
| + Volt | brown | 2 |
| A | green | 3 |
| B | yellow | 4 |
| 0 | grey | 5 |
| $\bar{A}$ | pink | 6 |
| $\bar{B}$ | blue | 7 |
| $\bar{0}$ | red | 8 |

# IH 740

*INCREMENTAL HOLLOW SHAFT ENCODER*

- Heavy Duty Construction
- Shaft Mounted
- Range of shaft bores (6 – 18 mm)
- 25000 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 300 kHz Maximum Frequency



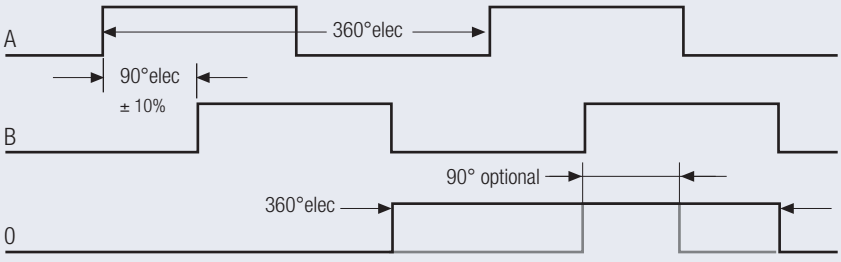
## *ELECTRICAL SPECIFICATIONS*

| | |
|---|---|
| Supply Voltage | 4.75-30 V DC |
| Current Consumption | 40 mA (max) |
| Output Circuit | Push-Pull, RS 422A |
| Impulse Frequency | 300 kHz (max) |
| Logic Level (high) | Vcc - 0.7 Volt |
| Logic Level (low) | 0.25 Volt (max) |
| Short Circuit Protection | 100 % |

## *MECHANICAL SPECIFICATIONS*

| | |
|---|---|
| Cover | Aluminium |
| Body | Aluminium |
| Shaft | Stainless Steel |
| Speed | 6000 RPM (max) |
| Torque | > 0.04 Nm |
| Loading | Axial 40 N, Radial 30 N |
| Protection | IP 65 |
| Temperature | -20˚...+70˚ C (-4˚...+158˚ F) |
| | +100˚ C (+212˚ F) Optional |
| Weight | 0.84 lb (380 g) |

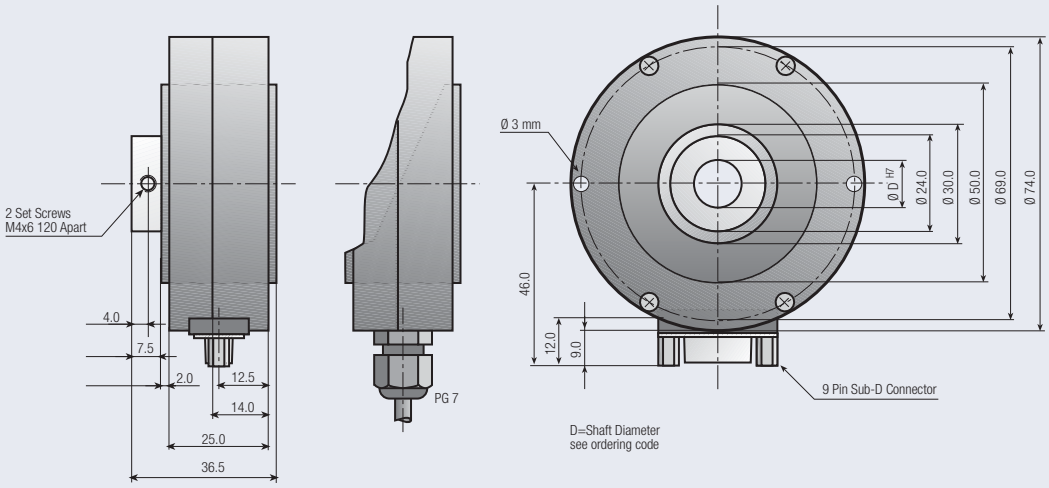
## *OUTPUT SIGNALS*




A Leads B in the CW Direction (facing shaft)
Complimentary channel also available

Optional Gated Marker Pulse
Gated with A+B Shown

Drawing available as:
dxf, iges, step, sld file




## ORDERING CODE

| IH | 740 | - | | | | | | | - | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a | b | | c | d | e | f | g | h | | Pulses Per Revolution | | | | |

a **Group Function**
IH=Incremental Hollow Shaft

b **Basic Series Number**
740

c **Shaft Size D**
06=6 mm 10=10 mm 12=12mm
14=14mm 16=16 mm 18=18 mm
AA=1/4“ AB=3/8“ AC=1/2“ AE=5/8"

d **Mechanical Options**
0=None

e **Connector Type**
0=2 mtr. (6ft.) Cable
6=9 Pin Sub D 7=12 Pin

f **Connector Location**
R=Radial

g **Output Signals**
3=A+B+0
6=A+B+0+Compliments

h **Output Circuit Type**
3=Push Pull 4.75 to 30 VDC

**Note:** Special functions and designs will be designated by a 4 digit code at the end of the part number. Consult factory for further details

## CONNECTIONS

| Function | Cable Colour Code | 12 Pin Connector |
|---|---|---|
| 0 Volt | white | 1 |
| + Volt | brown | 2 |
| A | green | 3 |
| B | yellow | 4 |
| 0 | grey | 5 |
| $\bar{A}$ | pink | 6 |
| $\bar{B}$ | blue | 7 |
| $\bar{0}$ | red | 8 |

# IH 840

*INCREMENTAL HOLLOW SHAFT ENCODER*

- Very Heavy Duty Construction
- Shaft Mounted
- 3600 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 300 kHz Maximum Frequency

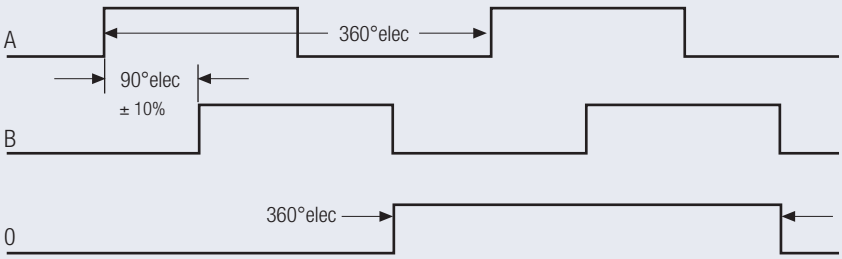
## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Supply Voltage | 4.75-30 V DC |
| Current Consumption | 40 mA (max) |
| Output Circuit | Push-Pull, RS 422A |
| Impulse Frequency | 300 kHz (max) |
| Logic Level (high) | Vcc - 0.7 Volt |
| Logic Level (low) | 0.25 Volt (max) |
| Short Circuit Protection | 100 % |

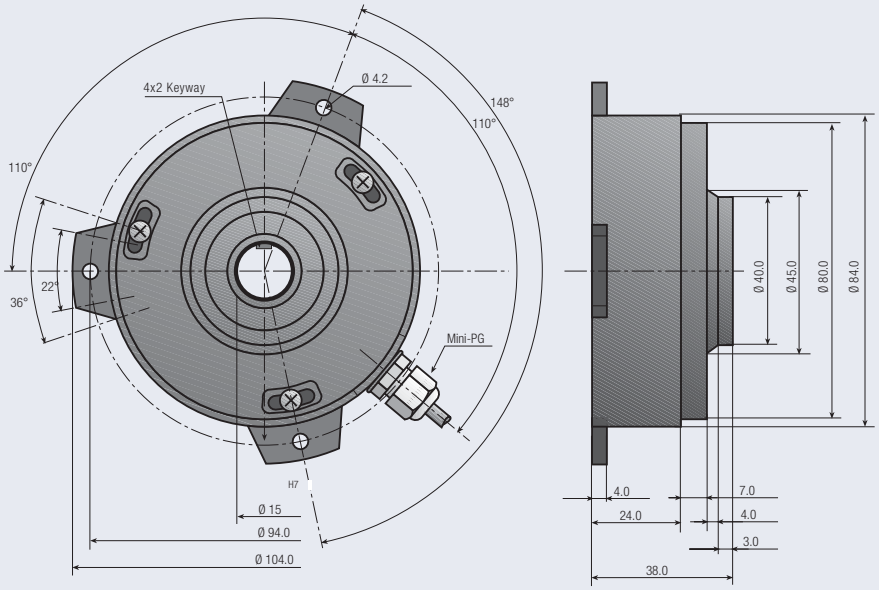
## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| Cover | Plastic (Noryl) |
| Body | Plastic (Noryl) |
| Shaft | Plastic (Noryl) |
| Speed | 6000 RPM (max) |
| Torque | > 0.04 Nm |
| Loading | Axial 20 N, Radial 30 N |
| Protection | IP 65 |
| Temperature | -20˚...+70˚ C (-4˚...+158˚ F) |
| | +100˚ C (+212˚ F) Optional |
| Weight | 0.27 lb (130 g) |

## OUTPUT SIGNALS




A Leads B in the CW Direction (facing shaft)
Complimentary channel also available




Drawing available as:
dxf, iges, step, sld file

## ORDERING CODE

| IH | 840 | - | | | | | | | | - | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a | b | | c | d | e | f | g | h | | | Pulses Per Revolution | | | | |

a **Group Function**
IH=Incremental Hollow Shaft

b **Basic Series Number**
840

c **Shaft Size D**
15=15 mm

d **Mechanical Options**
0=None

**Note:** Special functions and designs will be designated by a 4 digit code at the end of the part number. Consult factory for further details

e **Connector Type**
0=2 mtr. (6ft.) Cable

f **Connector Location**
R=Radial

g **Output Signals**
3=A+B+0
6=A+B+0+Compliments

h **Output Circuit Type**
3=Push Pull 4.75 to 30 VDC

## CONNECTIONS

| Function | Cable Colour Code |
|---|---|
| 0 Volt | white |
| + Volt | brown |
| A | green |
| B | yellow |
| 0 | grey |
| $\bar{A}$ | pink |
| $\bar{B}$ | blue |
| $\bar{0}$ | red |

# IH 950

*INCREMENTAL HOLLOW SHAFT ENCODER*

- Very Heavy Duty Construction
- Shaft Mounted
- Range of shaft bores (14 – 30 mm)
- 25000 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 300 kHz Maximum Frequency

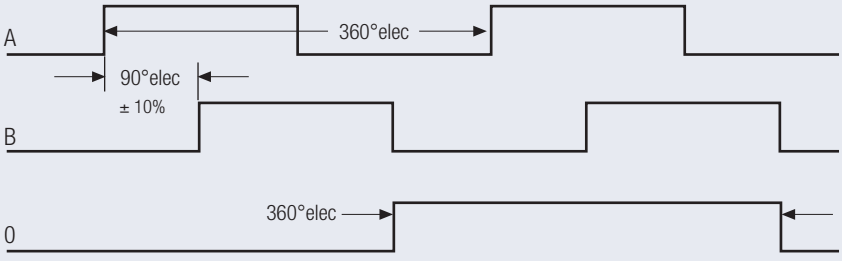
## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Supply Voltage | 4.75-30 V DC |
| Current Consumption | 40 mA (max) |
| Output Circuit | Push-Pull, RS 422A |
| Impulse Frequency | 300 kHz (max) |
| Logic Level (high) | Vcc - 0.7 Volt |
| Logic Level (low) | 0.25 Volt (max) |
| Short Circuit Protection | 100 % |

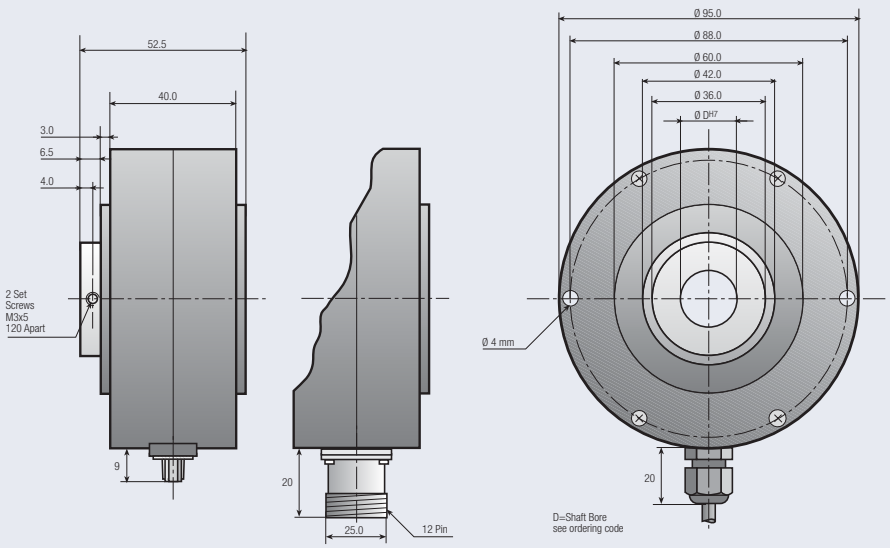
## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| Cover | Aluminium |
| Body | Aluminium |
| Shaft | Stainless Steel |
| Speed | 6000 RPM (max) |
| Torque | > 0.04 Nm |
| Loading | Axial 50 N, Radial 30 N |
| Protection | IP 65 |
| Temperature | -20˚...+70˚ C (-4˚...+158˚ F) |
| | +100˚ C (+212˚ F) Optional |
| Weight | 1.254 lb (570 g) |

## OUTPUT SIGNALS




A Leads B in the CW Direction (facing shaft)
Complimentary channel also available




Drawing available as:
dxf, iges, step, sld file

## ORDERING CODE

| IH | 950 | - | | | | | | | - | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a | b | | c | d | e | f | g | h | | Pulses Per Revolution | | | | |

a **Group Function**
IH=Incremental Hollow Shaft

b **Basic Series Number**
950

c **Shaft Size D**
12=12 mm 26=26mm
AE=5/8" AL = 1"

d **Mechanical Options**
0=None

**Note:** Special functions and designs will be designated by a 4 digit code at the end of the part number. Consult factory for further details

e **Connector Type**
0=2 mtr. (6ft.) Cable
6=9 Pin Sub D
7=12 Pin

f **Connector Location**
R=Radial

g **Output Signals**
3=A+B+0
6=A+B+0+Compliments

h **Output Circuit Type**
3=Push Pull 4.75 to 30 VDC

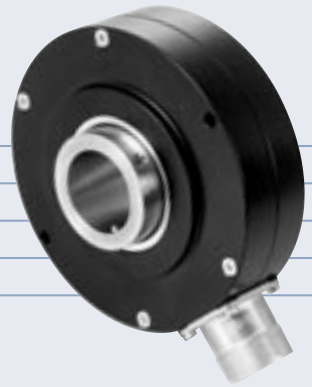
## CONNECTIONS

| Function | Cable Colour Code | 9 Pin Connector | 12 Pin Connector |
|---|---|---|---|
| 0 Volt | white | 1 | 1 |
| + Volt | brown | 2 | 2 |
| A | green | 3 | 3 |
| B | yellow | 4 | 4 |
| 0 | grey | 5 | 5 |
| $\bar{A}$ | pink | 6 | 6 |
| $\bar{B}$ | blue | 7 | 7 |
| $\bar{0}$ | red | 8 | 8 |

# IH 951

*INCREMENTAL HOLLOW SHAFT ENCODER*

- Very Heavy Duty Construction
- Shaft Mounted
- Range of shaft bores (14 – 30 mm)
- 25000 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 300 kHz Maximum Frequency



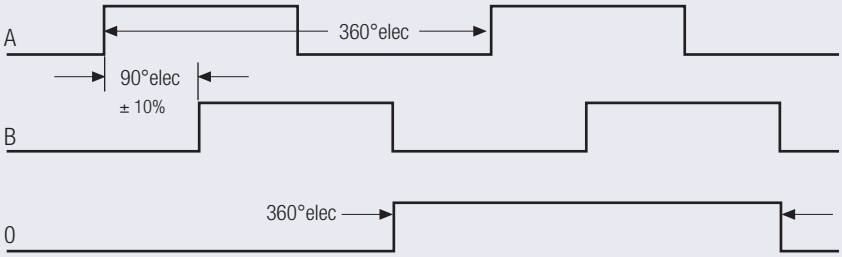
## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Supply Voltage | 4.75-30 V DC |
| Current Consumption | 40 mA (max) |
| Output Circuit | Push-Pull, RS 422A |
| Impulse Frequency | 300 kHz (max) |
| Logic Level (high) | Vcc - 0.7 Volt |
| Logic Level (low) | 0.25 Volt (max) |
| Short Circuit Protection | 100 % |

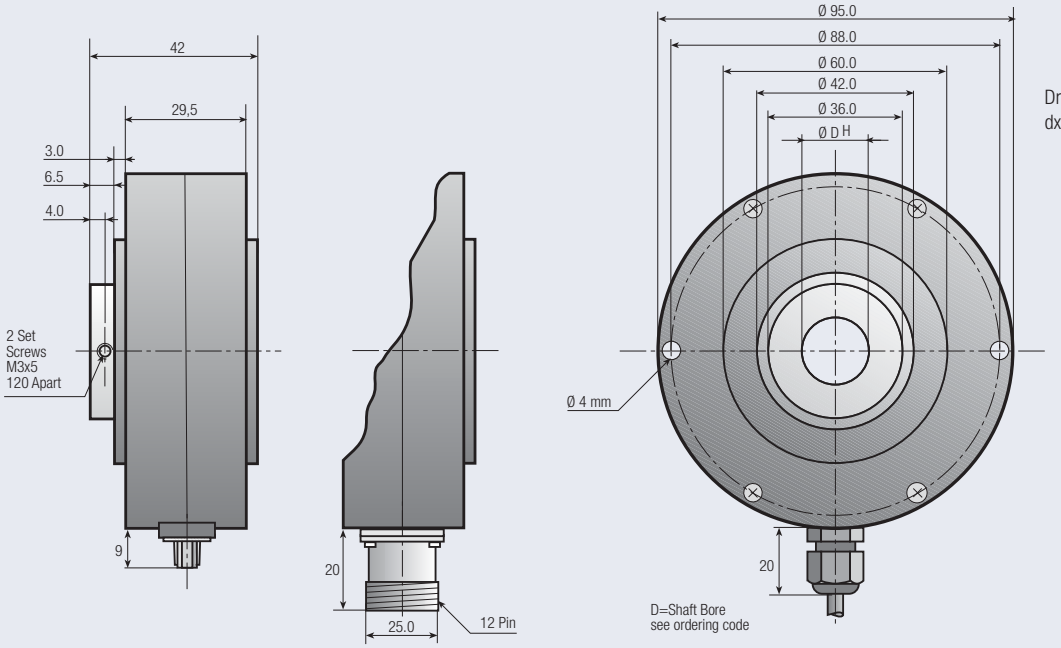
## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| Cover | Aluminium |
| Body | Aluminium |
| Shaft | Stainless Steel |
| Speed | 6000 RPM (max) |
| Torque | > 0.04 Nm |
| Loading | Axial 50 N, Radial 30 N |
| Protection | IP 65 |
| Temperature | -20˚...+70˚ C (-4˚...+158˚ F) |
| | +100˚ C (+212˚ F) Optional |
| Weight | 1.034 lb (470 g) |

## OUTPUT SIGNALS




A Leads B in the CW Direction (facing shaft)
Complimentary channel also available




Drawing available as:
dxf, iges, step, sld file

## ORDERING CODE

| IH | 951 | - | | | | | | | - | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a | b | | c | d | e | f | g | h | | Pulses Per Revolution | | | | |

a **Group Function**
IH=Incremental Hollow Shaft

b **Basic Series Number**
951

c **Shaft Size D**
12=12 mm 26=26mm
AE=5/8" AL=1"

d **Mechanical Options**
0=None

**Note:** Special functions and designs will be designated by a 4 digit code at the end of the part number. Consult factory for further details

e **Connector Type**
0=2 mtr. (6ft.) Cable
6=9 Pin Sub D
7=12 Pin

f **Connector Location**
R=Radial

g **Output Signals**
3=A+B+0
6=A+B+0+Compliments

h **Output Circuit Type**
3=Push Pull 4.75 to 30 VDC

## CONNECTIONS

| Function | Cable Colour Code | 9 Pin Connector | 12 Pin Connector |
|---|---|---|---|
| 0 Volt | white | 1 | 1 |
| + Volt | brown | 2 | 2 |
| A | green | 3 | 3 |
| B | yellow | 4 | 4 |
| 0 | grey | 5 | 5 |
| $\bar{A}$ | pink | 6 | 6 |
| $\bar{B}$ | blue | 7 | 7 |
| $\bar{0}$ | red | 8 | 8 |