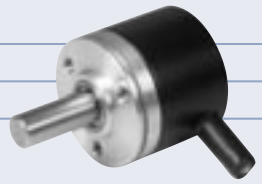
IS 240

INCREMENTAL SHAFT ENCODER

- Micro Miniature Size
- 1024 PPR Maximum
- 4.75 to 30 Volts, RS 422A Compatible
- 100 kHz Maximum Frequency



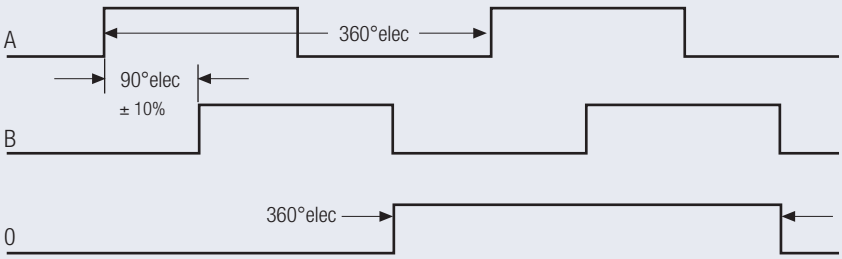
ELECTRICAL SPECIFICATIONS

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

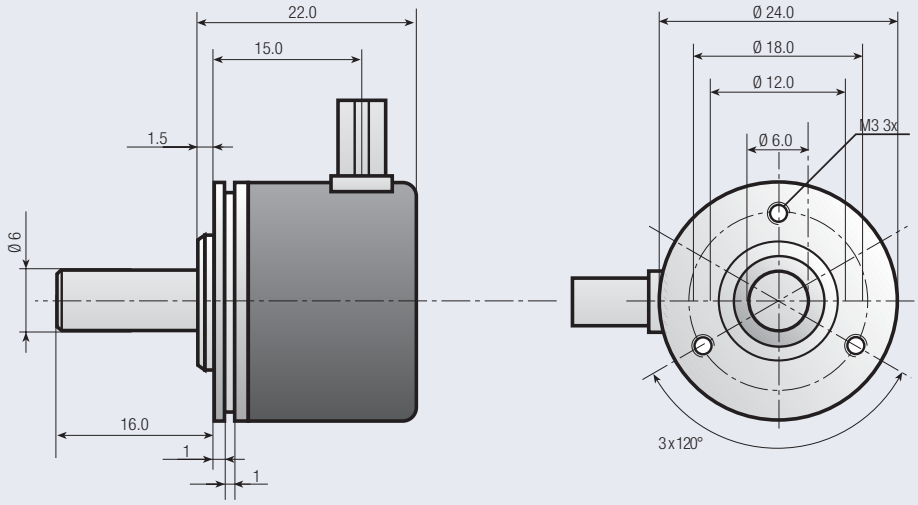
MECHANICAL SPECIFICATIONS

Cover	Aluminium
Body	Aluminium
Shaft	Stainless Steel
Speed	6000 RPM (max)
Torque	> 0.04 Nm
Loading	Axial 30 N, Radial 20 N
Protection	IP 65
Temperature	-20˚...+70˚ C (-4˚...+158˚ F)
Weight	0.24 lb (110 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

IS	240	-								-					
a	b		c	d	e	f	g	h			Pulses Per Revolution				

a **Group Function**
IS=Incremental Solid Shaft

b **Basic Series Number**
240

c **Shaft Size D**
06=6 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. Cable

f **Connector Location**
A=Axial

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

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

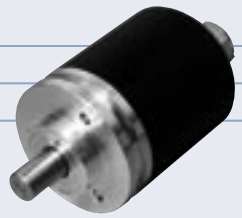
CONNECTIONS

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

IS 280

INCREMENTAL SHAFT ENCODER

- Micro Miniature Size
- 1024 PPR Maximum
- 4.75 to 30 Volts, RS 422A Compatible
- 100 kHz Maximum Frequency



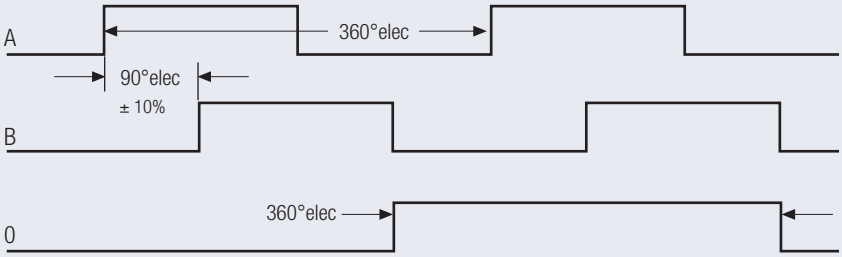
ELECTRICAL SPECIFICATIONS

Supply Voltage	4.75-30 V DC
Current Consumption	40 mA (max)
Output Circuit	Push-Pull, 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

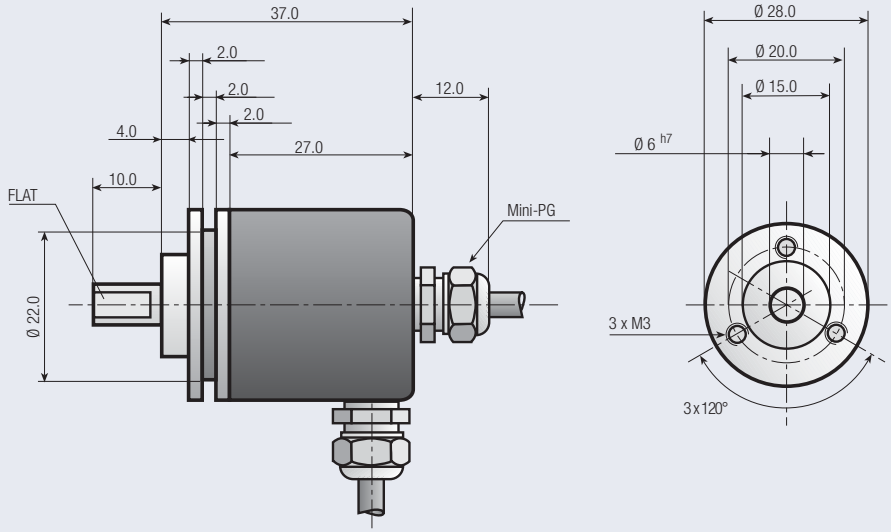
Cover	Aluminium
Body	Aluminium
Shaft	Stainless Steel
Speed	6000 RPM (max)
Torque	> 0.04 Nm
Loading	Axial 30 N, Radial 20 N
Protection	IP 65
Temperature	-20˚...+70˚ C (-4˚...+158˚ F)
Weight	0.24 lb (110 g)

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

IS	280	-							-					
a	b		c	d	e	f	g	h		Pulses Per Revolution				

a **Group Function**
IS=Incremental Solid Shaft

b **Basic Series Number**
280

c **Shaft Size D**
06=6 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. Cable

f **Connector Location**
A=Axial

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

IS 410

INCREMENTAL SHAFT ENCODER

- Miniature Size
- IP65 Protection
- Syncro Flange Mounting
- 10000 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 100 kHz Maximum Frequency

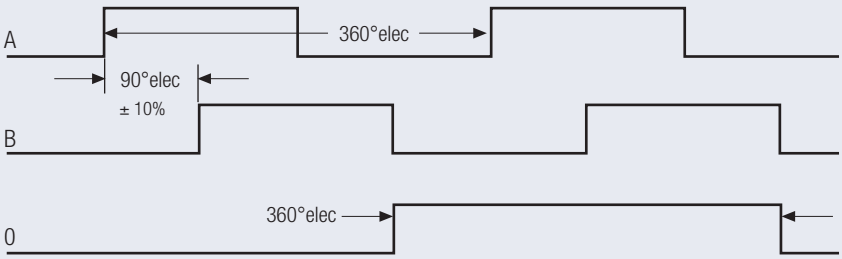
ELECTRICAL SPECIFICATIONS

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

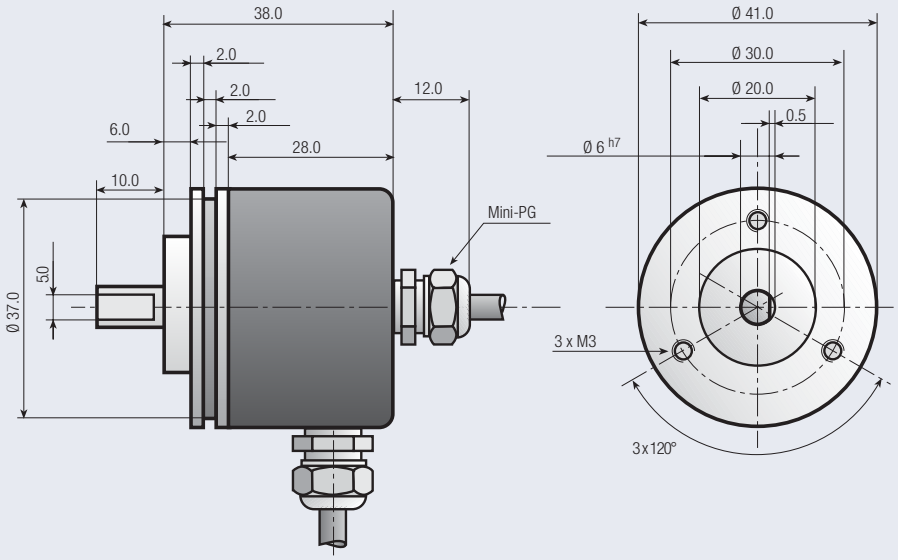
Cover	Aluminium
Body	Aluminium
Shaft	Stainless Steel
Speed	6000 RPM (max)
Torque	> 0.04 Nm
Loading	Axial 30 N, Radial 20 N
Protection	IP 65
Temperature	-20˚...+ 70˚ C (-4˚...+158˚ F)
Weight	0.31 lb (140 g)

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

IS	410	-								-					
a	b		c	d	e	f	g	h			Pulses Per Revolution				

a **Group Function**
IS=Incremental Solid Shaft

b **Basic Series Number**
410

c **Shaft Size D**
06=6 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. Cable

f **Connector Location**
A=Axial
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

IS 580

INCREMENTAL SHAFT ENCODER

- Industry Standard Size 25
- Syncro Flange Mounting
- 25000 PPR (Maximum)
- 4.75 to 30 Volts, RS 422 Compatible
- 300 kHz Maximum Frequency

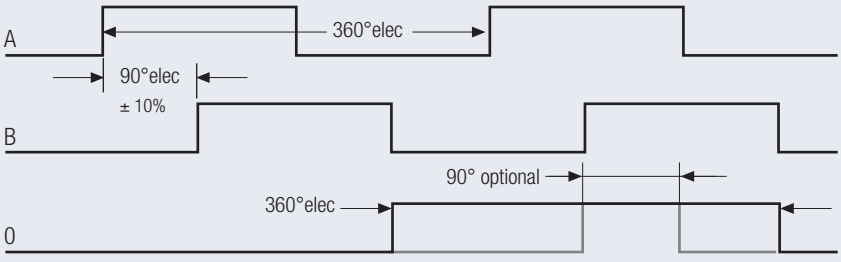
ELECTRICAL SPECIFICATIONS

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	8000 RPM (max)
Torque	> 0.05 Nm
Loading	Axial 40 N, Radial 30 N
Protection	IP 65
Temperature	-20˚...+70˚ C (-4˚...+158˚ F)
	+100˚ C (+212˚ F) Optional
Weight	0.74 lb (320 g)

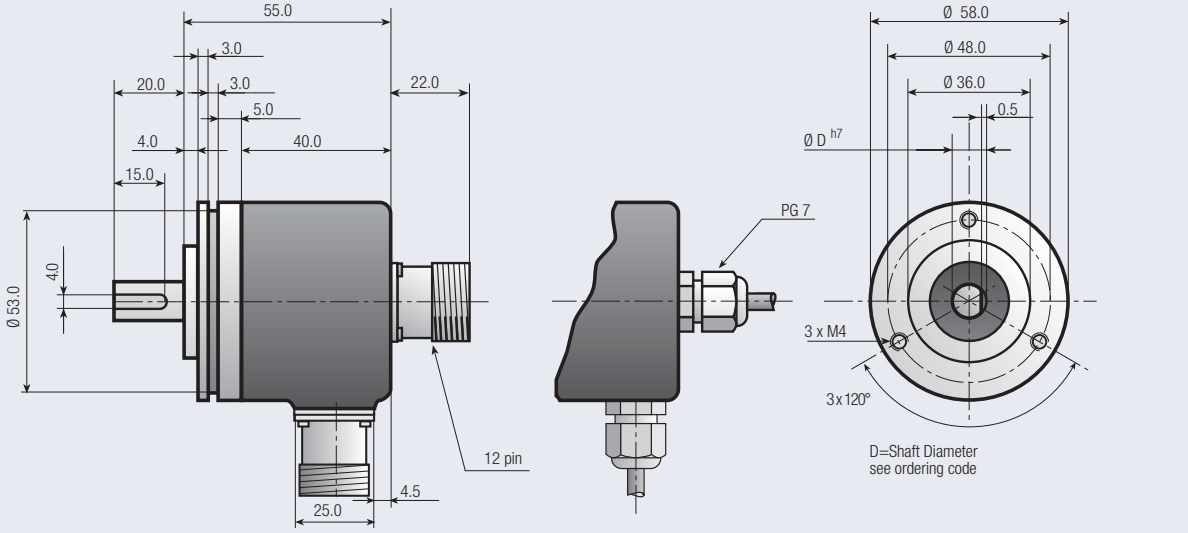
OUTPUT SIGNALS



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

IS	580	-							-					
a	b		c	d	e	f	g	h		Pulses Per Revolution				

a **Group Function**
IS=Incremental Solid Shaft

b **Basic Series Number**
580

c **Shaft Size D**
06=6 mm
10=10 mm

d **Mechanical Options**
0=None
2=Steel Cover

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
7=12 Pin

f **Connector Location**
A=Axial
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

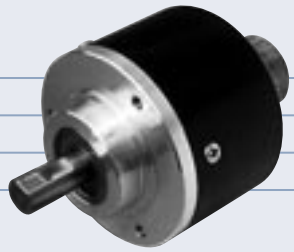
CONNECTIONS

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

IS 581

INCREMENTAL SHAFT ENCODER

- Industry Standard Size 25
- IP65 Protection
- 25000 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 300 kHz Maximum Frequency



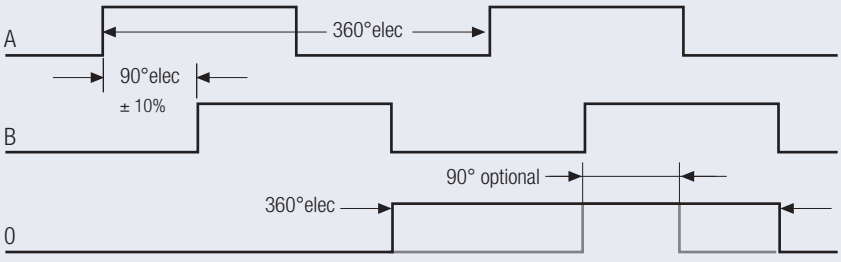
ELECTRICAL SPECIFICATIONS

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	8000 RPM (max)
Torque	> 0.05 Nm
Loading	Axial 40 N, Radial 30 N
Protection	IP 65
Temperature	-20˚...+70˚ C (-4˚...+158˚ F)
	+100˚ C (+212˚ F) Optional
Weight	0.74 lb (320 g)

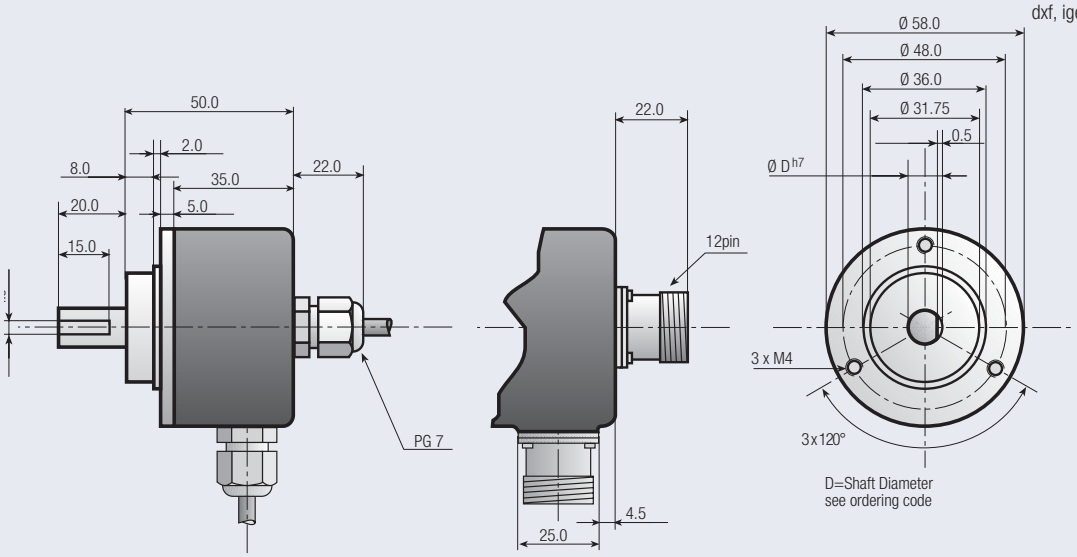
OUTPUT SIGNALS



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

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

a **Group Function**
IS=Incremental Solid Shaft

b **Basic Series Number**
581

c **Shaft Size D**
06=6 mm 08=8 mm 10=10 mm
AA=1/4" AB=3/8"

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, 4=6 Pin Mil,
5=7 Pin Mil, 7=12 Pin, 9=10 Pin Mil

f **Connector Location**
A=Axial
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

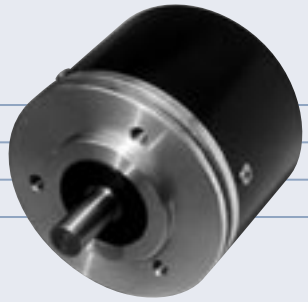
CONNECTIONS

Function	Cable Colour Code	12 Pin Connector	6 Pin CR3102A14S	7 Pin CR3102A16S	10 Pin CR3102A18S
0 Volt	white	1	F	F	F
+ Volt	brown	2	D	D	D
A	green	3	A	A	A
B	yellow	4	B	B	B
0	grey	5	C	C	C
$\bar{A}$	pink	6	N/C	G	H
$\bar{B}$	blue	7		E	I
$\bar{0}$	red	8			J

IS 700

INCREMENTAL SHAFT ENCODER

- Heavy Duty Construction
- IP65 Protection
- 25000 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 300 kHz Maximum Frequency



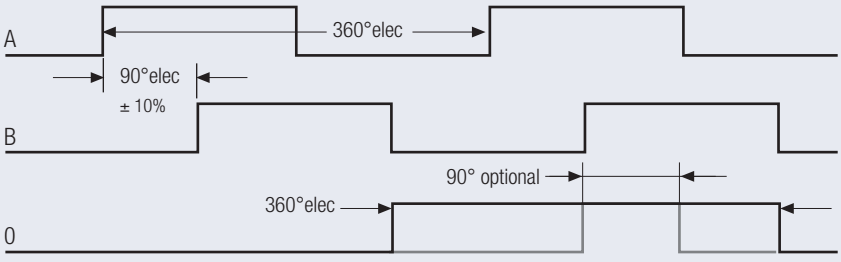
ELECTRICAL SPECIFICATIONS

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	> 0.1 Nm
Loading	Axial 60 N, Radial 50 N
Protection	IP 65
Temperature	-20˚...+70˚ C (-4˚...+158˚ F)
	+100˚ C (+212˚ F) Optional
Weight	1.125 lb (450 g)

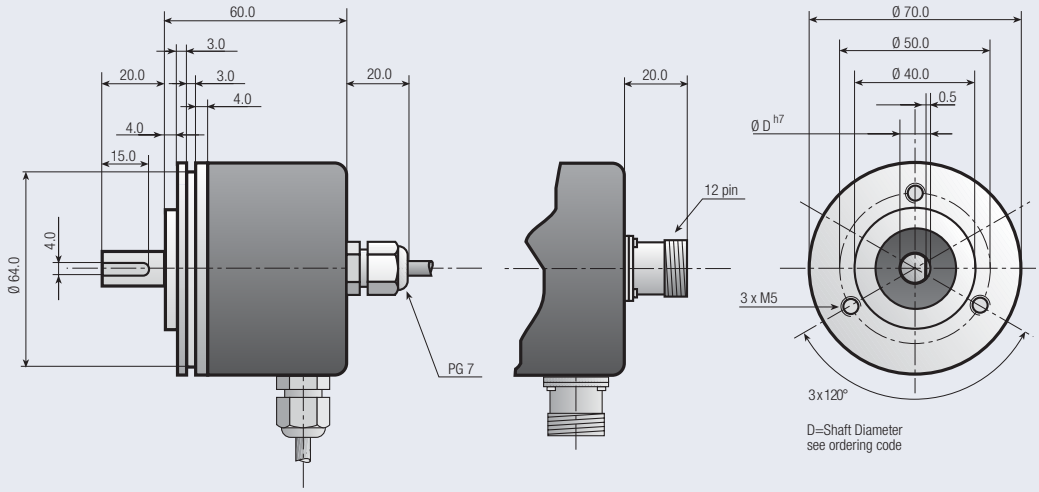
OUTPUT SIGNALS



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

IS	700	-							-					
a	b		c	d	e	f	g	h		Pulses Per Revolution				

a **Group Function**
IS=Incremental Solid Shaft

b **Basic Series Number**
700

c **Shaft Size D**
10=10 mm 12=12 mm
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
7=12 Pin

f **Connector Location**
A=Axial
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

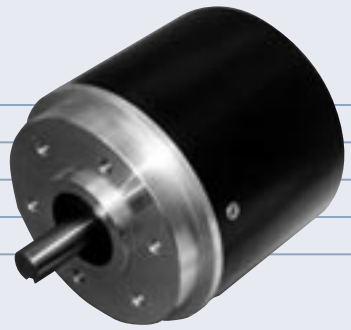
CONNECTIONS

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

IS 900

INCREMENTAL SHAFT ENCODER

- Heavy Duty Construction
- IP65 Protection (Optional IP 66)
- 25000 PPR Maximum
- 4.75 to 30 Volts, RS 422 Compatible
- 300 kHz Maximum Frequency



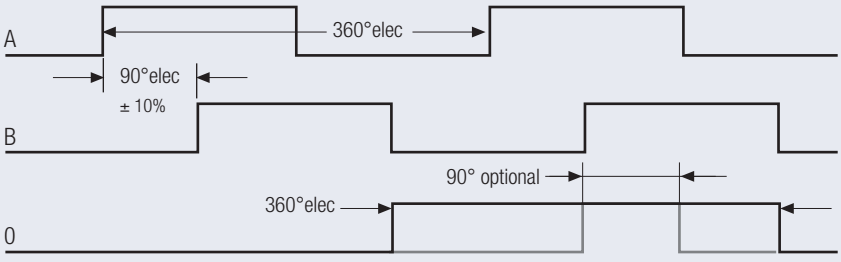
ELECTRICAL SPECIFICATIONS

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	Steel
Body	Aluminium
Shaft	Stainless Steel
Speed	6000 RPM (max)
Torque	> 0.1 Nm
Loading	Axial 60 N, Radial 50 N
Protection	IP 65
Temperature	-20˚...+70˚ C (-4˚...+158˚ F)
	+100˚ C (+212˚ F) Optional
Weight	1.870 lb (850 g)

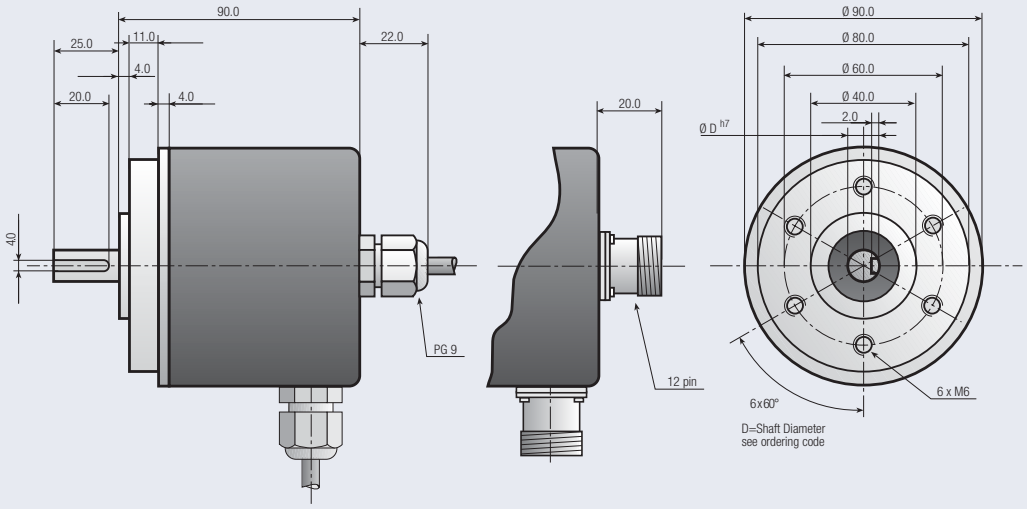
OUTPUT SIGNALS



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

IS	900	-							-					
a	b		c	d	e	f	g	h		Pulses Per Revolution				

a Group Function
IS=Incremental Solid Shaft

b Basic Series Number
900

c Shaft Size D
06=6 mm
12=12 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
7=12 Pin

f Connector Location
A=Axial
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