

# IS 581

INCREMENTAL SHAFT ENCODER

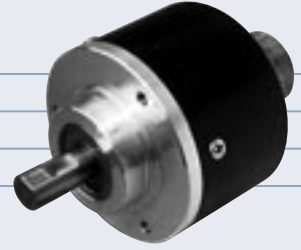
Industry Standard Size 25

IP65 Protection

25000 PPR Maximum

4.75 to 30 Volts, RS 422 Compatible

300 kHz Maximum Frequency



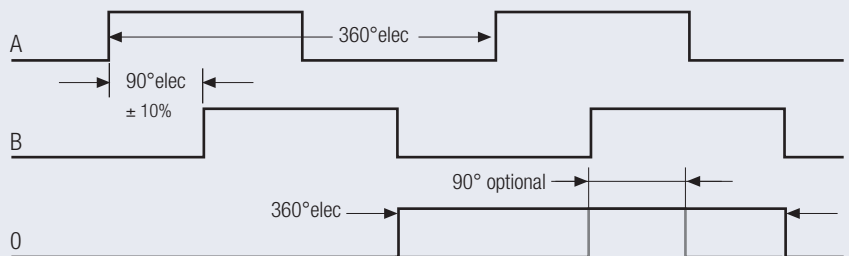
## ELECTRICAL SPECIFICATIONS

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)

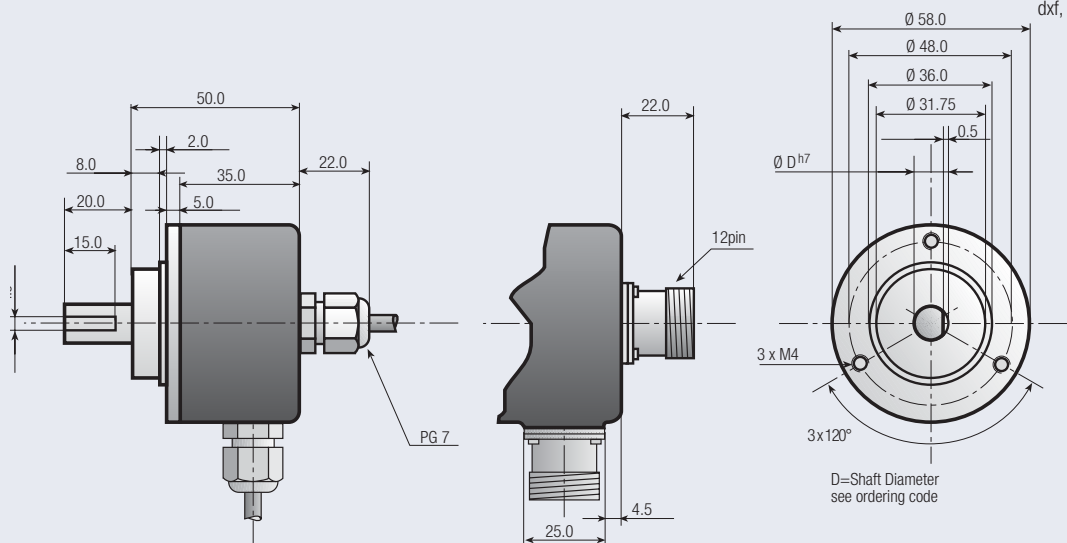
## OUTPUT SIGNALS



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

- 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

**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	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