

# MX 700B

EXPLOSION PROOF  
ABSOLUTE ENCODER WITH  
SSI SIGNAL PROTOCOL



EEx d IIC T6 (T4) "Flameproof Enclosures"

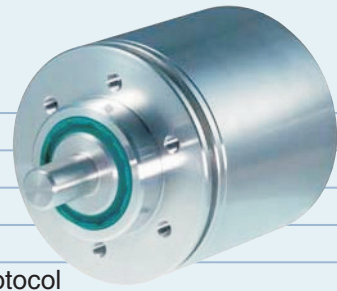
ATEX-Certified

Heavy Duty Construction

IP66/67

5 Vdc or 10 to 30 Vdc Supply Voltage

Binary or Gray SSI Signal Transmission Protocol



## APPROVAL CERTIFICATIONS

EC-Type Examination Certificate: IBExU 09 ATEX 1163X

CE 1252 Ex II 2G Ex d IIC T6 (T4)

CE 1252 Ex II 2D Ex tD A21 IP 6X T85°C (T105°C)

ATEX-Directive 94/9 EC: EN 60079-0: 2006; DIN EN 60079-1: 2007

EN 61241-0: 2006; DIN EN 61241-1: 2004 + Correction

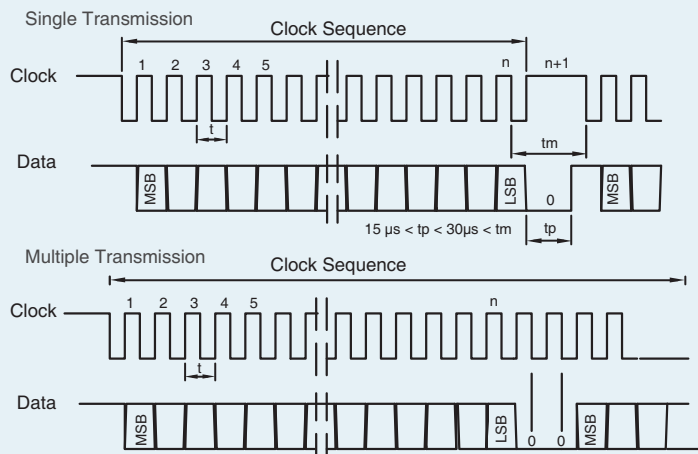
## ELECTRICAL SPECIFICATIONS

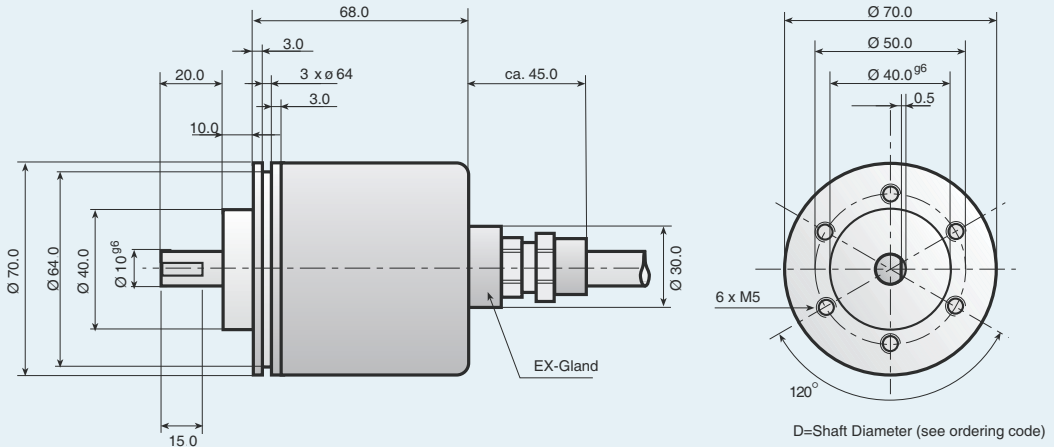
Supply Voltage	4.75 to 5.25 Vdc or 10 to 30 Vdc
Current Consumption	85 mA @ 27 Vdc
Output Circuit	RS485/RS422 Compatible
Clock Frequency	up to 500 kHz (standard)
Direction Setting	GND (cw) or +Vcc (ccw)
Reset/Preset Setting	+Vdc for 2 seconds
Resolution (standard)	12 Bits x 12 Bits
Screened Cable	Chemically Resistant Flame Retardant

## MECHANICAL SPECIFICATIONS

Cover	Stainless Steel
Bearing Housing	Stainless Steel
Shaft	Stainless Steel
Maximum RPM	6000 RPM (max)
Torque	> 0.4 Nm
Shaft Loading	Axial 60 N, Radial 50 N
Environmental Protection	IP66/67
Operating Temperature	-20 C to +70 C
Weight	1300 g (2.866 lbs)

## SSI TRANSMISSION PROTOCOL





**ORDERING CODE**

**MX 700B** -         -

a      b      c      d      e      f      g      h      Resolution

- |  |  |
|--|--|
| <p><b>a Group Function</b><br/>AX=Absolute Flame Proof</p> | <p><b>e Connection Type</b><br/>0=2 m (6') Cable</p>                           |
| <p><b>b Basic Series Number</b><br/>X700B</p>              | <p><b>f Connection Location</b><br/>A=Axial</p>                                |
| <p><b>c Shaft Size</b><br/>10=10 mm<br/>12=12 mm</p>       | <p><b>g Output Signals</b><br/>J=Binary Code-SSI<br/>Y=Gray Code-SSI</p>       |
| <p><b>Mechanical Options</b><br/>0=None</p>                | <p><b>h Output Circuit Type</b><br/>F=SSI - 5 Vdc<br/>G=SSI - 10 to 30 Vdc</p> |

Notes:  
Special functions and designs will be designated by a 4 digit code at the end of the part number.  
Serial format CAN signals are also available.  
Consult factory for further details.

**CONNECTIONS**

Function	Cable Colour Code
GND	WHITE
+ Vcc	BROWN
SSI Clock +	GREEN
SSI Clock -	YELLOW
SSI Data +	GREY
SSI Data -	PINK
Reset/Preset	BLUE
Direction Setting	RED