

Digital Display SSI 3020 For Encoders With SSI-Interface



Characteristics

- Input Synchron Serial Interface SSI
- Master/Slave-Mode
- LED-Display, red, 6 decades, 14 mm
- Display range -99999 .. 999999
- Free scaling and zero definition
- DIN Standard Case 96 x 48 mm
- Small Depth (70 mm)

Parameters of encoder

- Binary or gray code
- Resolution of the encoder
- Singelturm/Multiturn
- Direction of rotation
- Master/Slave-Mode
Master: clock is generated internally
Slave: clock is generated by an external instrument

SSI signal inputs

- Data input, receiver RS 422/485
- Clock output, driver RS 422/485
- Clock input, receiver RS 422/485

Software functions

- Scalingfactor
- Zero point adjustment with or without sign
- Decimal point setting
- Offset value

Push button at the front

The push buttons "*" can be programmed to following functions:

- Zero adjustment
- Reset zero adjustment

Ordering Informations

SSI 3020 -	0	0	
Housing			
	0	switch board mounting	
	1	panel-clip mounting	
reserved			
Front design			
	0	reserved	
	1	ERMA-Meter Logo	
	2	no Logo	
	3	customer defined Logo	
reserved			
Power supply			
	0	5 V DC, 10 % (isolated)	
	1	12 V DC, 10 % (isolated)	
	2	18 bis 36 V DC (isolated)	



Specifications

SSI signal input	singleturn or multiturn
Resolution	9 .. 25 bit
Code	binary or gray
Data input	receiver RS 422/485
Clock input	receiver RS 422/485
Clock output	driver RS 422/485
Master mode	
Clock frequency	200 kHz
Conversion rate	approx. 80 values per sec
Slave mode	
Clock frequency	extern, max. 100 kHz
Conversion rate	approx. 80 values per sec
Pause	500 µs
Power supply voltage	18 .. 36 V DC, max 50 mA
optional	12 V DC, ± 10 %, max. 100 mA
optional	5 V DC, ± 10 %, max. 200 mA
Isolation voltage	500 V / 1 min
Display	6 decades, 14 mm, red Decimal point programmable preliminary zero suppression - sign at negative values front membrane with push buttons DIN 43700
Operation, keyboard design	
Case	
Dimensions	96 x 48 x 65 mm
Depth	72 mm incl. screw terminal
Mounting	panel mounting or mosaic-system
Weight	ca. 200 g
Connection	Plug-In screw terminal
Operating temperature	0 .. 50 °C
Storage temperature	-20 .. 70 °C
Humidity	< 80 %, not-condensing
Protection	protective class II
Front protection	IP 54
Field of application	class 2, overvoltage protection II
CE	in conform with 89/336/EWG

