



FM210 Frequency Multiplier, Frequency Divider

Product features:

- Adjustable Multiplier / divider (F1/F2)
- Input format RS-422, HTL single ended, HTL differential or TTL
- Multiplication / division without cumulative residual error
- Additional functions like Jog, Trim, Offset and Reference
- Input frequency up to 1MHz, depending on input format
- Output frequency max. 1MHz
- Two HTL outputs to display different states
- Supply 9 to 30 VDC

Technical specifications:		
Connections:	Connector type:	screw terminal, 1,5 mm ² / AWG 16
Power supply:	Input voltage:	9 ... 30 VDC
	Protection circuit:	reverse polarity protection
	Ripple:	≤ 10 %
	Consumption:	approx. 70 mA (at 9 V unloaded) approx. 47 mA (at 30 V, unloaded)
Encoder supply:	Output voltage:	5,5 VDC 24VDC (depending on supply voltage)
	Output current:	max. 250 mA
Incremental inputs:	Number of inputs:	3
	Channels:	A, B, Z (HTL Single Ended, TTL Single Ended) A, /A, B, /B, Z, /Z (RS422, HTL Differential)
	Configuration:	RS-422, HTL Differential, HTL Single Ended, TTL
	RS422:	max. 1 MHz (RS-422 Differential signal > 0.5 V)
	HTL Differential:	max. 1 MHz (HTL Differential signal > 1 V)
	HTL Single Ended:	max. 350kHz, Level 1: Low 0...10V, High 14...30 V Level 2: Low 0 ... 5V, High 9 ... 30 V
	TTL:	max. 350kHz, Low 0 ... 0.6V, High 2.2 ... 5V
Control inputs:	Number of inputs:	4
	Format:	HTL, PNP (Low 0 ... 4 V, High 10 ... 30 V)
	Frequency:	max. 1 kHz
	Reaction time:	1 ms
	Load:	max. 5mA at 24VDC
Incremental outputs:	Number of outputs:	3
	Channels:	A, /A, B, /B, Z, /Z
	Format / level:	HTL: 8 ... 29 V (depend on supply voltage) RS-422: 5 V
	Output current:	max. 30 mA / Push-Pull
Housing:	Material:	Plastic
	Mounting:	35 mm top hat rail (according to EN 60715)
	Dimensions (B x H x T):	22,5 x 102 x 102 mm
	Protection class:	IP20
	Weight:	approx. 100 g
Temperature range:	Operation:	0 °C ... +60 °C / 32 ... 140 °F (not condensing)
	Storage:	-25 °C ... +70 °C / -13 ... 158 °F (not condensing)
Failure rate:	MTBF in years:	66,1 (long-term usage at 60 °C / 140 °F)
Conformity and standards:	EMC 2014/30/EU:	EN 61326-1: 2013 for industrial location EN 55011: 2017 / CISPR11: 2017 Class A
	RoHS (II) 2011/65/EU	
	RoHS (III) 2015/863:	EN IEC 63000: 2018