



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 |