

DCFM31482

Impulse and Frequency Multiplier for Use with Incremental Encoders and Sensors

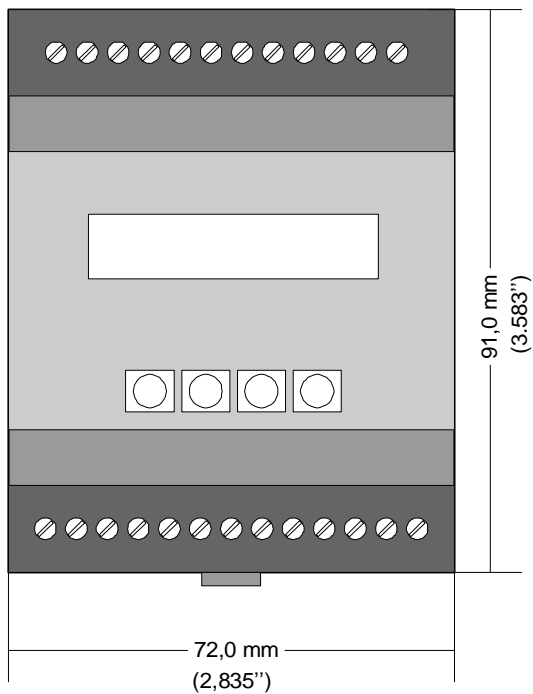


- Universal inputs for incremental encoder signals A, B, Z or A, /A, B, /B, Z, /Z with either TTL level or RS422 format or HTL level
- Unit to multiply the input impulses with a proportional factor F1 and a reciprocal factor F2, both adjustable in a range of 0.005 to 9.9999
- Error-free multiplication with accurate impulse count on input and output, therefore no cumulative errors, even not with encoder vibration or frequent change of direction of rotation
- Frequency range 1 MHz (input and output), programmable index pulse output
- Serial interface and USB port for communication with remote units and PC

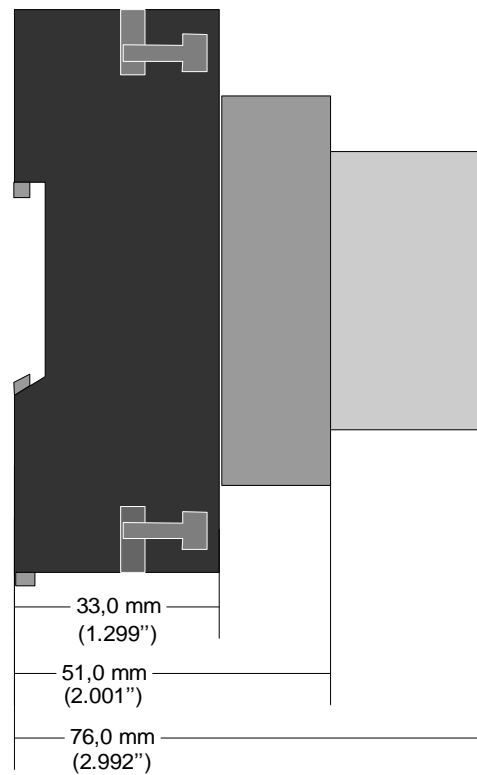
1. Technical Specifications and Dimensions

Power supply	:	11 VDC - 30 VDC
Current consumption	:	approx. 65 mA with 24 VDC
Aux. output for encoder supply	:	5.2 V max. 200 mA
Control inputs Cont.1 - Cont.4	:	Ri = 3,9 kOhm, LOW < 2,5V, HIGH > 10V Minimum pulse duration with dynamic function: 50 µsec. Minimum pulse duration with static signals: 2 msec.
Encoder inputs	:	RS422 or differential TTL or differential HTL (differential voltage must always be > 1 V) TTL, LOW < 0.5V, HIGH > 2,5V HTL (NPN / PNP) Ri = 4,75 k, LOW < 4V / HIGH > 10V
Encoder outputs	:	Push-pull stages 5 - 30 V / 30 mA (short-circuit-proof)
Input frequency	:	RS422 und TTL differential: 1 MHz HTL und TTL single-ended: 300 kHz
Serial interface	:	RS232 / 2400 - 38 400 bauds
Ambient temperature	:	Operation: 0 - 45°C (32 - 113°F) Storage: -25 - +70°C (-13 - 158°F)
Housing	:	Plastic housing for mounting on standard DIN rails 35 mm
Display	:	LCD with backlight 2 lines at 16 characters each, 3,5 mm size
Protection class	:	IP20
Connection terminals	:	25 screw terminals, cross section max. 1.5 mm ² (0.0023 in ²)
Conformity and standards	:	EMC 89/336/EEC: EN 61000-6-2 EN 61000-6-3 LV73/23/EEC: EN 61010-1

Dimensions:



Front view



Side view