

Comparison

**DM556M,
DM556EU, EM556S**



Comparison of Digital Drivers DM556M, DM556EU, EM556S

Mecheltron GmbH & Co.KG has drivers from various price ranges, performance levels and manufacturers in its portfolio. Below you will find a comparison of stepper motor drivers for operating voltages up to 50 volts.



Mecheltron DM556M



Leadshine DM556EU



Leadshine EM556S

	DM556M		DM556EU		EM556S		
Auto-tuning	✗		✓		✓		
Anti-resonance	✓		✓		✓		
Extra-low motor noise	✓		✓		✓		
Idle-current reduction	✓		✓		✓		
Protection for over-voltage/ over-current	✓		✓		✓		
Optical isolated inputs	✓		✓		✓		
Input PUL/ DIR	✓		✓		✓		
CW/ CCW mode	✗		✗		✓		
RS232 programming	✗		✗		✓		
Fault & Brake Output	✗		✗		✓		
Self-test via DIP switch	✗		✗		✓		
Current setting via software (steps 0.1 A)	✗		✗		✓		
Current setting via DIP switches (steps)	8		8		8		
Steps/ revolution via DIP switches	200-51.200		400 - 25.600		200 – 25.600		
Selectable micro-step resolutions via DIP switches	16		16		16		
Steps/ revolution via software (increase by 200)	N		N		200 - 51.200		
Voltage tolerance of inputs (High Level)	3,3-5,0 V (TTL)		3,3 - 5,0 V (TTL)		3,3 - 5,0 V (TTL)/ 12 - 24 V		
Dimensions [mm]	118 x 75 x 32		118 x 75,5 x 34		118 x 75,5 x 34		
Connectors:	WANJIE: WJ2EDGK, 5,0 mm Pitch, 2-Pin WANJIE: WJ2EDGK, 5,0 mm Pitch, 4-Pin WANJIE: WJ2EDGK, 5,0 mm Pitch, 6-Pin		WANJIE: WJ2EDGK, 5,0 mm Pitch, 2-Pin WANJIE: WJ2EDGK, 5,0 mm Pitch, 4-Pin WANJIE: WJ2EDGK, 5,0 mm Pitch, 6-Pin		ANYTEK: TJ, 3,81 mm Pitch, 3-Pin ANYTEK: TJ, 3,81 mm Pitch, 6-Pin ANYTEK: TJ, 5,0 mm Pitch, 2-Pin ANYTEK: TJ, 5,0 mm Pitch, 4-Pin		
Weight	250 g		300 g		250 g		
	Min	Max	Min	Max	Min	Max	Units
Output current via DIPs	1,8	5,6	1,8	5,6	1,8	5,6	A
Output current via SW					0,5	5,6	A
Supply voltage	20	50	20	50	20	50	VDC
Logical signal current	7	16	7	16	7	16	mA
Pulse input frequency	0	200	0	200	0	200	kHz
Minimal pulse width	2,5		2,5		2,5		µs
Minimal direction timing	5,0		5,0		5,0		µs
Insulation resistance	500		500		500		MΩ