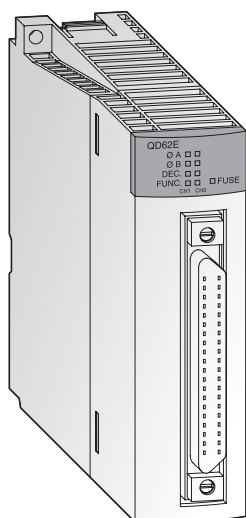


High-Speed Counter Modules



High-speed counter with automatic detection of rotation direction

These counter modules detect signals with a frequency which cannot be detected by normal input modules. For example, simple positioning tasks or frequency measurements can be realized.

Special features:

- Input for incremental shaft encoder with automatic forward and reverse detection
- Preset count via external signals or the PLC program with the aid of the PRESET function
- Ring counter function for counting up to a predefined value with automatic resetting to the starting value
- Functions such as speed measurement, definition of switching points or periodic counting are available.
- The modules QD62□ are provided with a 40-pin connector interface (for suitable connectors, please refer to the chapter "Accessories").
- The module QD60P8-G is provided with a removable terminal block fastened with screws.

Specifications	QD62E	QD62	QD62D	QD60P8-G	QD63P6
Counter inputs	2	2	2	8	6
Signal levels	5/12/24 V DC (2–5 mA)	5/12/24 V DC (2–5 mA)	5/12/24 V DC (2–5 mA) (RS422A)	5/12/24 V DC	5 V DC (6.4–11.5 mA)
Max. counting frequency	kHz 200	200	500 (differential)	30	200
Max. counting speed	1-phase-input	200 or 100	500 or 200	30	200,100 or 10
	2-phase-input	200 or 100	500 or 200	—	200,100 or 10
Counting range	32 bits + sign (binary), -2147483648– +2147483647	32 bits + sign (binary), -2147483648– +2147483647	32 bits + sign (binary), -2147483648– +2147483647	16 bits binary: 0–32767 32 bits binary: 0–99999999 32 bits binary: 0–2147483647	32 bits + sign (binary), -2147483648– +2147483647
Counter type	All modules are equipped with UP/DOWN preset counter and ring counter function.			Moving average function, alarm output and pre-scale function	UP/DOWN preset counter and ring counter function
Comparison range	32 bits + sign (binary)	32 bits + sign (binary)	32 bits + sign (binary)	32 bits + sign (binary)	32 bits + sign (binary)
External digital input points	Preset, function start				
	Nominal values	5/12/24 V DC (2–5 mA)	5/12/24 V DC (2–5 mA)	5/12/24 V DC (2–5 mA) (RS422A)	5/12/24 V DC
External digital output points (coincidence signal)	2 points/channel 12/24 V DC 0.1 A/point, 0.4 A/common (source)	2 points/channel 12/24 V DC 0.5 A/point, 2.0 A/common (sink)	2 points/channel 12/24 V DC 0.5 A/point, 2.0 A/common (sink)	—	—
I/O points	16	16	16	32	32
Connection terminal	40-pin connector at the front	40-pin connector at the front	40-pin connector at the front	18-point removable terminal block with screws	40-pin connector
Applicable wire size	mm ² 0.3	0.3	0.3	0.3–0.75	0.3
Internal power consumption (5 V DC)	mA 330	300	380	580	590
Weight	kg 0.12	0.11	0.12	0.17	0.15
Dimensions (WxHxD)	mm 27.4x98x90	27.4x98x90	27.4x98x90	27.4x98x90	27.4x98x90
Order information	Art. no. 128949	132579	132580	145038	213229
Accessories	40-pin connector and ready to use connection cables (refer to pages 57–58)				