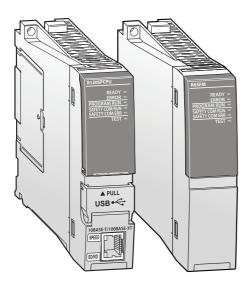
■ Safety function module and safety CPU



Safety function module

The safety function module must be mounted next to the iQ-R safety CPU module. It is included with the purchase of an iQ-R safety CPU set, and cannot be purchased independent from the set.

Specifications			R6SFM	
I/O points			16	
Control method			Stored program cyclic operation	
Memory capacity Safety program	Program capacity		40 k steps (160 kByte)	
	Program memory		160 kByte	
	Device/label memory		80 kByte	
Buffer memory		4096 kByte		
Max. compensation time at power failure		Depends on power supply		
Internal power consumption (5 V DC)		Α	0.67	
Weight		kg	0.16	
Dimensions (WxHxD)		mm	27.8x106x110	

Note: This product ships as part of the R□SFCPU-SET.

Generic and safety control in one CPU

The safety CPU module enables control of both generic and safety programs in the same module and is easily programmed utilizing the intuitive features of GX Works3. Compliant with internationally recognized safety standards, the safety CPU enables safety devices such as safety light curtains, emergency switches, and door switches to be connected via the CC-Link IE Field network without requiring a separate dedicated network line.

The safety CPU can be installed directly on the MELSEC iQ-R series base rack, and is easily integrated into an existing or new control system. Safety devices are connectable using the CC-Link IE Field network with safety communication integrated into the network protocol over a widely-available industrial Ethernet topology. The safety CPU is compliant with ISO 13849-1 PL e and IEC 61508 SIL 3 and is certified by TÜV Rheinland®.

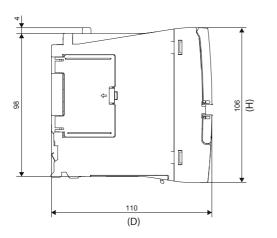
Common engineering platform:

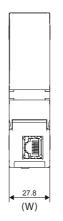
Various useful features of GX Works3 are also available for safety programs similar to other control programs

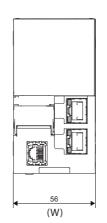
Specifications		RO8SFCPU-SET®	R16SFCPU-SET®	R32SFCPU-SET®	R120SFCPU-SET®
Safety integrity level (SIL)		SIL 3 (IEC 61508)			
Performance level (PL)		PL e (EN/ISO 13849-1)			
Control method		Stored program cyclic operation			
I/O control mode		Refresh mode (Direct access I/O is available by specifying direct access I/O (DX, DY).)			
Programming language		Ladder diagram (LD), structured text (ST) ②, function block diagram (FBD) ③			
Extended programming la	nguage	Function block (FB), label programming (system/local/global)			
Program execution type		Initial [®] , scan [®] , fixed scan, interrupt [®] , standby type [®]			
Memory capacity	Program capacity	80 k steps (40 k steps for safety programs)	160 k steps (40 k steps for safety programs)	320 k steps (40 k steps for safety programs)	1200 k steps (40 k steps for safety programs)
	Program memory	320 kByte	640 kByte	1280 kByte	4800 kByte
	Device/label memory	1178 kByte	1710 kByte	2306 kByte	3370 kByte
	Data memory	5 MByte	10 MByte	20 MByte	40 MByte
USB Port	B Port USB2.0 high-speed (miniB) x 1				
Integrated clock	egrated clock Year, month, day, minute, second, weekday (automatic leap year adjustment)				
Max. compensation time a	ax. compensation time at power failure Depends on power supply				
Internal power consumption	on (5 V DC) A	0.76	0.76	0.76	0.76
Weight	kg	0.20	0.20	0.20	0.20
Dimensions (WxHxD)	mm	27.8x106x110	27.8x106x110	27.8x106x110	27.8x106x110
Order information	Art. no.	289989	290199	290200	290201

- ① Product package includes a safety CPU(R□SFCPU) and safety function module (R6SFM).
- Only for executing control programs.

■ CPU modules



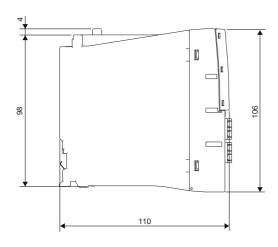


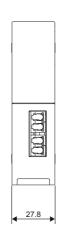


Туре	W	Н	D
R04CPU R08CPU R16CPU R32CPU R120CPU	27.8	106	110
RO4ENCPU RO8ENCPU R16ENCPU R32ENCPU R120ENCPU	56	106	110

Unit: mm

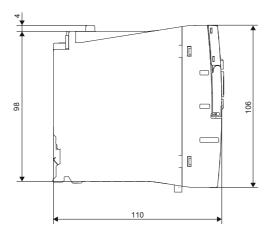
■ Process CPU modules and redundant function module

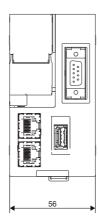




Unit: mm

■ C Controller CPU





Unit: mm