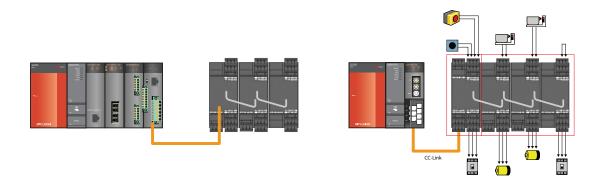
Safety Relay Modules



Function	Description			
Dual Input Function	Prevents damage of the safety functions due to a single failure by doubling inputs. Input N type: Dual input with positive common and negative common Input P type: Dual input with positive commons In the case of input N type, when a short circuit occurs between the dual inputs, a short circuit occurs between the power supply and grounding. Therefore, power goes off by the electric fuse.			
Start-Up/Off Check Function	Checks that status of the safety relay module and external device are normal.			
Start-Up Method Selection Function	hod Selection Function Checks that status of the safety relay module and external device are normal.			
Monitor Function	Allows to check operating status of the whole safety relay modules including extension safety relay modules by connecting to the programmable controller using programming tool.			
Partial Shutdown Function With Extension Module	Allows to shut off outputs of a certain module by using safety inputs of extension module			

Safety Relay Module Specifications

Model Number		Q Series Safety Relay Module		CC-Link Safety Relay Module		Extension Safety Relay Module		
		QS90SR2SP-Q	QS90SR2SN-Q	QS90SR2SP-CC	QS90SR2SN-CC	QS90SR2SP-EX	QS90SR2SN-EX	
Stocked Item		S	S	S	S	S	S	
Applicable Safety Standard		EN954-1 Category 4, ISO13849-1 PLe						
Number of Safety Input Points		1 point (2 inputs)						
Number of Start-Up Input Points		1 point						
Number of Safety Output Points		1 point (3 outputs)						
Rated Load C	urrent	Category 4: 3.6 A/point or less, Category 3: 5.0 A/point or less (250VAC/30VDC)						
Response Time	Time Until Output OFF	20 ms or less (safety input OFF to safety output OFF)						
	Time Until Output ON	50 ms or less (safety input ON to safety output ON)						
Module Power Supply		20.4 to 26.4VDC (rippl	e ratio: 5% or less)	20.4 to 26.4VDC (ripple ratio: 5% or less)		Supplied from Q Series safety relay module or CC-Link safety relay module.		
Safety Power Supply		20.4 to 26.4VDC (rippl	e ratio: 5% or less)	20.4 to 26.4VDC (ripple ratio: 5% or less)		Supplied from Q Series safety relay module or CC-Link safety relay module.		
Number of Extension Modules		Max. 3 extension safet	y relay modules	Max. 3 extension safety relay modules		N/A		
External Conn	ections	Two-piece spring clamp terminal block						
Relay Life	Mechanical	5,000,000 times or more						
	Electrical	100,000 times or more						
Input Type		P type (dual input with positive commons)	N type (dual input with positive common and negative common)	P type (dual input with positive commons)	N type (dual input with positive common and negative common)	P type (dual input with positive commons)	N type (dual input with positive common and negative common)	

Safety Relay Module Extension Cables

Model Number	QS90CBL-SE01	QS90CBL-SE15	
Stocked Item	S	S	
Cable Length (m)	0.1	1.5	