

Safety cabling in the field with IP67

SIRIUS sensors and SIMATIC ET 200eco

The new system comprising SIRIUS sensors and SIMATIC ET 200eco provides a safe M12 connection method for industry.

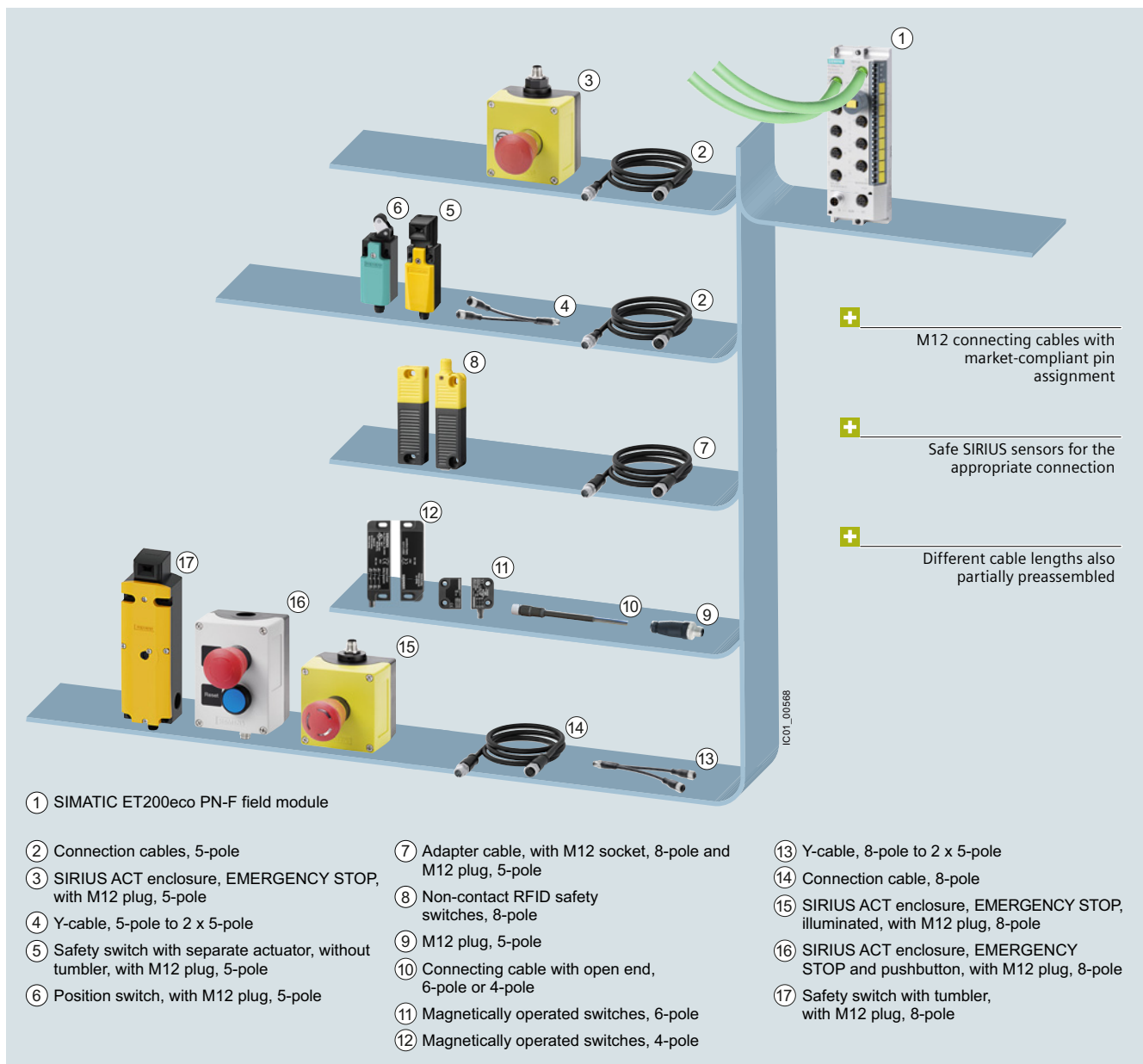
With the SIMATIC ET 200eco PN-F Safety field module, a PROFIsafe connection in the field is now possible with flexible connection of SIRIUS sensors.

Examples:

- SIRIUS ACT enclosure, EMERGENCY STOP, with M12 plug, 5-pole and 8-pole
- Position switch, with M12 plug, 5-pole
- RFID safety switch, with M12 plug, 8-pole, and magnetically operated switch, 4-pole or 6-pole
- Safety switch with tumbler, with M12 plug, 8-pole

Advantages:

- Identical pin assignment on the modules, connection cables and sensors enables simple and fast connection, and connection errors and their consequences are prevented.
- Safe system technology in the field from the sensor to the field module























Safety field system composed of SIRIUS sensors and SIMATIC ET 200eco with the M12 connection method

Position and Safety Switches

SIRIUS 3SE5 Mechanical Position Switches

General data

Sensors with M12 plugs	Type	SIL	Connection accessories M12 method, A-coded	Type	Cable length	
SIRIUS ACT enclosure, EMERGENCY STOP						
	Enclosure plastic, yellow, with 1 command point, A = EMERGENCY STOP mushroom pushbutton, red, M12 plug (5-pole)	3SU1801-0NH00-4NB2	3	 Connection cable with M12 socket, 5-pole and M12 plug, 5-pole or  Connecting cable with M12 socket, 5-pole, open end and  M12 plug 5-pole, straight, separate item	3SX5601-3SV15 3SX5601-3SB55 3RK1902-4BA00-5AA0	1 m 5 m --
Mechanical safety switches						
Plastic 31 mm						
	Basic switch/rounded plunger for modular design with M12 plug, 5-pole + actuator head (order separately), e.g. roller lever 3SE5000-0AE10	3SE5234-0LC05-1AE2	1			
	Position switch, roller plunger with M12 plug, 5-pole	3SE5234-0LD03-1AE2	1			
	Position switch, roller lever with M12 plug, 5-pole	3SE5234-0LE11-1AE2	2			
	Safety switch with separate actuator without tumbler with M12 plug, 5-pole + actuator (order separately), e.g. standard 3SE5000-0AV01	3SE5234-0QV40-1AE2	2	 Connection cable with M12 socket, 5-pole and M12 plug, 5-pole or  Connecting cable with M12 socket, 5-pole, open end and  M12 plug 5-pole, straight, separate item	3SX5601-3SV15 3SX5601-3SB55 3RK1902-4BA00-5AA0	1 m 5 m --
Metal, 40 mm						
	Basic switch for modular design with M12 plug, 5-pole + actuator head (order separately), e.g. roller plunger 3SE5000-0AD02	3SE5114-0LA00-1AE3	1			
	Position switch, roller plunger with M12 plug, 5-pole	3SE5114-0LD02-1AE3	1			
	Position switch, twist lever with M12 plug, 5-pole	3SE5114-0LH01-1AE3	1			
	Position switch, plain plunger with M12 plug, 5-pole	3SE5114-0LB01-1AE3	1			
	Safety switch with separate actuator without tumbler with M12 plug, 5-pole + actuator (order separately), e.g. standard 3SE5000-0AV01	3SE5114-0QV10-1AE3	2			
Combinations (examples)						
	Position switch + safety switch with separate actuator, without tumbler Actuator (order separately), e.g. standard 3SE5000-0AV01	3SE5114-0LH01-1AE3 + 3SE5234-0QV40-1AE2	3	 ET200 Y-cable for connecting 2 x one-channel sensors with M12 plug, 5-pole on 2 x M12 sockets, 5-pole Extend if necessary with	6ES7194-6KB00-0XA0	0.2 m
	2 x safety switches with separate actuator, without tumbler Actuator (order separately), e.g. standard 3SE5000-0AV01	3SE5234-0QV40-1AE2 3SE5234-0QV40-1AE2	3	 Connection cable with M12 socket, 5-pole and M12 plug, 5-pole or  Connecting cable with M12 socket, 5-pole, open end and  M12 plug 5-pole, straight, separate item	3SX5601-3SV15 3SX5601-3SB55 3RK1902-4BA00-5AA0	1 m 5 m --
	2 x position switches	3SE5114-0LH01-1AE3 3SE5234-0LE11-1AE2	3			

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Sensors with M12 plugs	Type	SIL	Connection accessories M12 method, A-coded	Type	Cable length		
Non-contact safety switches (examples)							
	RFID safety switch , family-coded	3SE6315-0BB01	3	 Adapter cable with M12 socket, 8-pole on M12 plug, 5-pole	3SX5601-3SV00-1AK3	0.5 m	
	+ actuator	3SE6310-0BC01	3		Extend if necessary with		
	RFID safety switch , individually coded, programmable several times	3SE6315-0BB02	3		 Connection cable with M12 socket, 5-pole and M12 plug, 5-pole	3SX5601-3SV15	1 m
+ actuator	3SE6310-0BC01	3					
	RFID safety switch , individually coded, programmable once	3SE6315-0BB03	3				
	+ actuator	3SE6310-0BC01	3				
	Magnetically operated switch (cable 3 m)	3SE6605-2BA	3	 M12 plug 5-pole, straight, separate item	3RK1902-4BA00-5AA0	--	
	+ switching magnet (25 x 88 mm), coded	3SE6704-2BA			or		
	Magnetically operated switch M8 plug, 4-pole + LED, door hinge left , (25 x 88 mm), 2 NC	3SE6614-4CA01	3	 Connecting cable with M8 socket, 4-pole, open end	3SX5601-3GA05	5 m	
	+ switching magnet (25 x 88 mm), coded	3SE6714-2CA			and		
	Magnetically operated switch M8 plug, 4-pole + LED, door hinge right , (25 x 88 mm), 2 NC	3SE6624-4CA01	3	 M12 plug 5-pole, straight, separate item	3RK1902-4BA00-5AA0	--	
	+ switching magnet (25 x 88 mm), coded	3SE6714-2CA			or		
	Magnetically operated switch 8 mm Ø latching connection, plug, 6-pole, door hinge left (25 x 88 mm), 2 NC + 1 NC signaling contact	3SE6617-2CA01	3	 M12 plug 5-pole, angled, separate item	3RK1902-4DA00-5AA0	--	
	+ switching magnet (25 x 88 mm), coded	3SE6714-2CA			or		
	Magnetically operated switch 8 mm Ø latching connection, plug, 6-pole, door hinge right (25 x 88 mm), 2 NC + 1 NC signaling contact	3SE6627-2CA01	3	 Connecting cable with socket 8 mm, latching connection, 6-pole, open end	3SX5601-4GA05	5 m	
	+ switching magnet (25 x 88 mm), coded	3SE6714-2CA			and		
	Magnetically operated switch 8 mm Ø latching connection, plug, 6-pole, door hinge left (26 x 36 mm), 2 NC + 1 NC signaling contact	3SE6617-3CA01	3	 M12 plug 5-pole, straight, separate item	3RK1902-4BA00-5AA0	--	
	+ switching magnet (26 x 36 mm), coded	3SE6714-3CA			or		
	Magnetically operated switch 8 mm Ø latching connection, plug, 6-pole, door hinge right (26 x 36 mm), 2 NC + 1 NC signaling contact	3SE6627-3CA01	3	 M12 plug 5-pole, angled, separate item	3RK1902-4DA00-5AA0	--	
	+ switching magnet (26 x 36 mm), coded	3SE6714-3CA			or		

Position and Safety Switches

SIRIUS 3SE5 Mechanical Position Switches

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Sensors with M12 plugs	Type	SIL	Connection accessories M12 method, A-coded	Type	Cable length
Mechanical safety switches with tumbler					
 Safety switch with tumbler, with solenoid monitoring M12 plug, 8-pole, monitoring 1 x door + 1 x interlocking, connection to an F-DI input and an F-DQ output via a Y-cable + actuator (order separately), e.g. standard 3SE5000-0AV01, stainless steel 3SE5000-0AW51	3SE5324-OSD21-1AE4	2	 Connection cable with M12 socket, 8-pole and M12 plug, 8-pole	3SX5601-3SV18	1 m
			 ET200 Y-cable for connecting 1 x two-channel sensor with M12 socket, 8-pole on 2 x M12 plugs, 5-pole	6ES7194-6KC00-0XA0 ¹⁾	0.2 m
 Safety switch with tumbler, without solenoid monitoring M12 plug, 8-pole, monitoring 2 x door + 0 x interlocking, connection to an F-DI input and an F-DQ output via a Y-cable + actuator (order separately), e.g. standard 3SE5000-0AV01, stainless steel 3SE5000-0AW51	3SE5324-OSD21-1AE5	2	 Connecting cable with M12 socket, 8-pole, straight, open end	3SX5601-2GA03	3 m
			 M12 plug 8-pole, straight	6GT2090-0BE00	--
			 ET200 Y-cable for connecting 1 x two-channel sensor with M12 socket, 8-pole on 2 x M12 plugs, 5-pole	6ES7194-6KC00-0XA0 ¹⁾	0.2 m
			 Connecting cable with M12 socket, 8-pole, straight, open end	3SX5601-2GA05	5 m
SIRIUS ACT enclosures					
 Enclosure plastic, yellow, with 1 command point, A=EMERGENCY STOP mushroom pushbutton, red, M12 plug (8-pole), connection to an F-DI input and an F-DQ output via a Y-cable	3SU1801-0NV00-4SA2	3	 Connection cable with M12 socket, 8-pole and M12 plug, 8-pole	3SX5601-3SV18	1 m
			 ET200 Y-cable for connecting 1 x two-channel sensor with M12 socket, 8-pole on 2 x M12 plugs, 5-pole	6ES7194-6KC00-0XA0 ¹⁾	0.2 m
 Enclosure plastic, gray, with 2 command points, B=EMERGENCY STOP mushroom pushbutton, red, A=pushbutton, blue, M12 plug (8-pole), two connections to two F-DI inputs via a Y-cable	3SU1802-0NE00-4SB1	3	 Connecting cable with M12 socket, 8-pole, straight, open end	3SX5601-2GA03	3 m
			 M12 plug 8-pole, straight	6GT2090-0BE00	--
			 ET200 Y-cable for connecting 1 x two-channel sensor with M12 socket, 8-pole on 2 x M12 plugs, 5-pole	6ES7194-6KC00-0XA0 ¹⁾	0.2 m
			 Connecting cable with M12 socket, 8-pole, straight, open end	3SX5601-2GA10	10 m

¹⁾ Start of delivery on request.