



SIM30NM1RSX



SIM12FM1PSX



SIM12NM1RSX



SIQ18FP1NC2



SCM30NP1PSX



SMB31LC2-B15

S Series Sensors

- Rapid switching capacity
- Easy to install
- Works in heavy industrial conditions
- Short circuit and overload protection
- Reverse polarity protection

Sensors

Inductive Proximity Switches (3 Wire), IP67

SIM12FM1PC2



SIM12NM1RC2



SIM12FM1PSX



SIM18NM1PC2



SIM30NM1RSX



SIM30FM1PC2



SIQ18FP1NC2

Code	Body Type	Voltage	Sensing Distance	Mounting	Switching Frequency	Connection	Output
SIM12FM1NC2	Cylinder 12	10-30 V DC	2mm	Flush	800 Hz	Wire Connection(2m)	NPN-NO
SIM12FM1NSX	Cylinder 12	10-30 V DC	2mm	Flush	800 Hz	M12 Connector	NPN-NO
SIM12FM1OC2	Cylinder 12	10-30 V DC	2mm	Flush	800 Hz	Wire Connection(2m)	NPN-NC
SIM12FM1OSX	Cylinder 12	10-30 V DC	2mm	Flush	800 Hz	M12 Connector	NPN-NC
SIM12FM1PC2	Cylinder 12	10-30 V DC	2mm	Flush	800 Hz	Wire Connection(2m)	PNP-NO
SIM12FM1PSX	Cylinder 12	10-30 V DC	2mm	Flush	800 Hz	M12 Connector	PNP-NO
SIM12FM1RC2	Cylinder 12	10-30 V DC	2mm	Flush	800 Hz	Wire Connection(2m)	PNP-NC
SIM12FM1RSX	Cylinder 12	10-30 V DC	2mm	Flush	800 Hz	M12 Connector	PNP-NC
SIM12NM1NC2	Cylinder 12	10-30 V DC	4mm	Nonflush	400 Hz	Wire Connection(2m)	NPN-NO
SIM12NM1NSX	Cylinder 12	10-30 V DC	4mm	Nonflush	400 Hz	M12 Connector	NPN-NO
SIM12NM1OC2	Cylinder 12	10-30 V DC	4mm	Nonflush	400 Hz	Wire Connection(2m)	NPN-NC
SIM12NM1OSX	Cylinder 12	10-30 V DC	4mm	Nonflush	400 Hz	M12 Connector	NPN-NC
SIM12NM1PC2	Cylinder 12	10-30 V DC	4mm	Nonflush	400 Hz	Wire Connection(2m)	PNP-NO
SIM12NM1PSX	Cylinder 12	10-30 V DC	4mm	Nonflush	400 Hz	M12 Connector	PNP-NO
SIM12NM1RC2	Cylinder 12	10-30 V DC	4mm	Nonflush	400 Hz	Wire Connection(2m)	PNP-NC
SIM12NM1RSX	Cylinder 12	10-30 V DC	4mm	Nonflush	400 Hz	M12 Connector	PNP-NC
SIM18FM1NC2	Cylinder 18	10-30 V DC	5mm	Flush	800 Hz	Wire Connection(2m)	NPN-NO
SIM18FM1OC2	Cylinder 18	10-30 V DC	5mm	Flush	800 Hz	Wire Connection(2m)	NPN-NC
SIM18FM1PC2	Cylinder 18	10-30 V DC	5mm	Flush	800 Hz	Wire Connection(2m)	PNP-NO
SIM18FM1RC2	Cylinder 18	10-30 V DC	5mm	Flush	800 Hz	Wire Connection(2m)	PNP-NC
SIM18NM1NC2	Cylinder 18	10-30 V DC	8mm	Nonflush	400 Hz	Wire Connection(2m)	NPN-NO
SIM18NM1OC2	Cylinder 18	10-30 V DC	8mm	Nonflush	400 Hz	Wire Connection(2m)	NPN-NC
SIM18NM1PC2	Cylinder 18	10-30 V DC	8mm	Nonflush	400 Hz	Wire Connection(2m)	PNP-NO
SIM18NM1RC2	Cylinder 18	10-30 V DC	8mm	Nonflush	400 Hz	Wire Connection(2m)	PNP-NC
SIM30FM1NC2	Cylinder 30	10-30 V DC	10mm	Flush	400 Hz	Wire Connection(2m)	NPN-NO
SIM30FM1NSX	Cylinder 30	10-30 V DC	10mm	Flush	400 Hz	M12 Connector	NPN-NO
SIM30FM1OC2	Cylinder 30	10-30 V DC	10mm	Flush	400 Hz	Wire Connection(2m)	NPN-NC
SIM30FM1OSX	Cylinder 30	10-30 V DC	10mm	Flush	400 Hz	M12 Connector	NPN-NC
SIM30FM1PC2	Cylinder 30	10-30 V DC	10mm	Flush	400 Hz	Wire Connection(2m)	PNP-NO
SIM30FM1PSX	Cylinder 30	10-30 V DC	10mm	Flush	400 Hz	M12 Connector	PNP-NO
SIM30FM1RC2	Cylinder 30	10-30 V DC	10mm	Flush	400 Hz	Wire Connection(2m)	PNP-NC
SIM30FM1RSX	Cylinder 30	10-30 V DC	10mm	Flush	400 Hz	M12 Connector	PNP-NC
SIM30NM1NC2	Cylinder 30	10-30 V DC	15mm	Nonflush	200 Hz	Wire Connection(2m)	NPN-NO
SIM30NM1NSX	Cylinder 30	10-30 V DC	15mm	Nonflush	200 Hz	M12 Connector	NPN-NO
SIM30NM1OC2	Cylinder 30	10-30 V DC	15mm	Nonflush	200 Hz	Wire Connection(2m)	NPN-NC
SIM30NM1OSX	Cylinder 30	10-30 V DC	15mm	Nonflush	200 Hz	M12 Connector	NPN-NC
SIM30NM1PC2	Cylinder 30	10-30 V DC	15mm	Nonflush	200 Hz	Wire Connection(2m)	PNP-NO
SIM30NM1PSX	Cylinder 30	10-30 V DC	15mm	Nonflush	200 Hz	M12 Connector	PNP-NO
SIM30NM1RC2	Cylinder 30	10-30 V DC	15mm	Nonflush	200 Hz	Wire Connection(2m)	PNP-NC
SIM30NM1RSX	Cylinder 30	10-30 V DC	15mm	Nonflush	200 Hz	M12 Connector	PNP-NC
SIQ18FP1NC2	Square 18	10-30V DC	5mm	Flush	800 Hz	Wire Connection(2m)	NPN-NO
SIQ18FP1NC7	Square 18	10-30V DC	5mm	Flush	800 Hz	Wire Connection (7m)	NPN-NO
SIQ18FP1OC2	Square 18	10-30V DC	5mm	Flush	800 Hz	Wire Connection(2m)	NPN-NC
SIQ18FP1OC7	Square 18	10-30V DC	5mm	Flush	800 Hz	Wire Connection (7m)	NPN-NC
SIQ18FP1PC2	Square 18	10-30V DC	5mm	Flush	800 Hz	Wire Connection(2m)	PNP-NO
SIQ18FP1PC7	Square 18	10-30V DC	5mm	Flush	800 Hz	Wire Connection (7m)	PNP-NO
SIQ18FP1RC2	Square 18	10-30V DC	5mm	Flush	800 Hz	Wire Connection(2m)	PNP-NC
SIQ18FP1RC7	Square 18	10-30V DC	5mm	Flush	800 Hz	Wire Connection (7m)	PNP-NC
SIQ18NP1NC2	Square 18	10-30V DC	8mm	Nonflush	400 Hz	Wire Connection(2m)	NPN-NO
SIQ18NP1NC7	Square 18	10-30V DC	8mm	Nonflush	400 Hz	Wire Connection (7m)	NPN-NO
SIQ18NP1OC2	Square 18	10-30V DC	8mm	Nonflush	400 Hz	Wire Connection(2m)	NPN-NC
SIQ18NP1OC7	Square 18	10-30V DC	8mm	Nonflush	400 Hz	Wire Connection (7m)	NPN-NC
SIQ18NP1PC2	Square 18	10-30V DC	8mm	Nonflush	400 Hz	Wire Connection(2m)	PNP-NO
SIQ18NP1PC7	Square 18	10-30V DC	8mm	Nonflush	400 Hz	Wire Connection (7m)	PNP-NO
SIQ18NP1RC2	Square 18	10-30V DC	8mm	Nonflush	400 Hz	Wire Connection(2m)	PNP-NC
SIQ18NP1RC7	Square 18	10-30V DC	8mm	Nonflush	400 Hz	Wire Connection (7m)	PNP-NC



SCM18NP1NC2



SCM30NP1PC2

Capacitive Proximity Switches (3 Wire), IP65

Code	Body Type	Voltage	Sensing Distance	Mounting	Body Material	Connection	Output
SCM18NP1NC2	Cylinder 18	10-30 V DC	2-10mm	Nonflush	Plastic	Wire Connection(2m)	NPN-NO
SCM18NP1OC2	Cylinder 18	10-30 V DC	2-10mm	Nonflush	Plastic	Wire Connection(2m)	NPN-NC
SCM18NP1PC2	Cylinder 18	10-30 V DC	2-10mm	Nonflush	Plastic	Wire Connection(2m)	PNP-NO
SCM18NP1RC2	Cylinder 18	10-30 V DC	2-10mm	Nonflush	Plastic	Wire Connection(2m)	PNP-NC
SCM30NM1NC2	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Metal	Wire Connection(2m)	NPN-NO
SCM30NM1NSX	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Metal	M12 Connector	NPN-NO
SCM30NM1OC2	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Metal	Wire Connection(2m)	NPN-NC
SCM30NM1OSX	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Metal	M12 Connector	NPN-NC
SCM30NM1PC2	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Metal	Wire Connection(2m)	PNP-NO
SCM30NM1PSX	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Metal	M12 Connector	PNP-NO
SCM30NM1RC2	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Metal	Wire Connection(2m)	PNP-NC
SCM30NM1RSX	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Metal	M12 Connector	PNP-NC
SCM30NP1NC2	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Plastic	Wire Connection(2m)	NPN-NO
SCM30NP1NSX	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Plastic	M12 Connector	NPN-NO
SCM30NP1OC2	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Plastic	Wire Connection(2m)	NPN-NC
SCM30NP1OSX	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Plastic	M12 Connector	NPN-NC
SCM30NP1PC2	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Plastic	Wire Connection(2m)	PNP-NO
SCM30NP1PSX	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Plastic	M12 Connector	PNP-NO
SCM30NP1RC2	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Plastic	Wire Connection(2m)	PNP-NC
SCM30NP1RSX	Cylinder 30	10-30 V DC	3-15mm	Nonflush	Plastic	M12 Connector	PNP-NC



SCB22MP1NC1

Capacitive Button, IP67

Code	Body Type	Voltage	Sensing Distance	Mounting Type	Body Material	Connection	Output
SCB22MP1NC1	Dia 22 mm	10-30 V DC	Touch	Button	Plastic	1 Metre Cable	NPN-NO
SCB22MP1NSX	Dia 22 mm	10-30 V DC	Touch	Button	Plastic	M12 Connector	NPN-NO
SCB22MP1OC1	Dia 22 mm	10-30 V DC	Touch	Button	Plastic	1 Metre Cable	NPN-NC
SCB22MP1OSX	Dia 22 mm	10-30 V DC	Touch	Button	Plastic	M12 Connector	NPN-NC
SCB22MP1PC1	Dia 22 mm	10-30 V DC	Touch	Button	Plastic	1 Metre Cable	PNP-NO
SCB22MP1PSX	Dia 22 mm	10-30 V DC	Touch	Button	Plastic	M12 Connector	PNP-NO
SCB22MP1RC1	Dia 22 mm	10-30 V DC	Touch	Button	Plastic	1 Metre Cable	PNP-NC
SCB22MP1RSX	Dia 22 mm	10-30 V DC	Touch	Button	Plastic	M12 Connector	PNP-NC
SCB22MP5NC1	Dia 22 mm	10-30 V DC, Stay Put	Touch	Button	Plastic	1 Metre Cable	NPN-NO
SCB22MP5NSX	Dia 22 mm	10-30 V DC, Stay Put	Touch	Button	Plastic	M12 Connector	NPN-NO
SCB22MP5OC1	Dia 22 mm	10-30 V DC, Stay Put	Touch	Button	Plastic	1 Metre Cable	NPN-NC
SCB22MP5OSX	Dia 22 mm	10-30 V DC, Stay Put	Touch	Button	Plastic	M12 Connector	NPN-NC
SCB22MP5PC1	Dia 22 mm	10-30 V DC, Stay Put	Touch	Button	Plastic	1 Metre Cable	PNP-NO
SCB22MP5PSX	Dia 22 mm	10-30 V DC, Stay Put	Touch	Button	Plastic	M12 Connector	PNP-NO
SCB22MP5RC1	Dia 22 mm	10-30 V DC, Stay Put	Touch	Button	Plastic	1 Metre Cable	PNP-NC
SCB22MP5RSX	Dia 22 mm	10-30 V DC, Stay Put	Touch	Button	Plastic	M12 Connector	PNP-NC



SPM18DP4DC2

Photoelectric Proximity Switches (4 Wire), IP65

Code	Body Type	Voltage	Sensing Distance	Operating Type	Response Time	Connection	Output
SPM18DP4DC2	Cylinder 18	10-30 V DC	400mm	Diffuse Reflection	2ms	Wire Connection(2m)	PNP 1NO+1NC
SPM18DP4EC2	Cylinder 18	10-30 V DC	400mm	Diffuse Reflection	2ms	Wire Connection(2m)	NPN 1NO+1NC

**Magnetic Switch, IP68**

Code	Body Type	Contact Type	Mounting-Type	Connection	Features	Sensing Distance	Box/Pcs
SMB10LC2-B1*	Rectangular 78 mm	1NC+1NO	Left Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMB10LSZ-B1*	Rectangular 78 mm	1NC+1NO	Left Exit	M8*4 Connection		5 mm / 8 mm	1
SMB10MC2-B1*	Rectangular 78 mm	1NC+1NO	Upright Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMB10MSZ-B1*	Rectangular 78 mm	1NC+1NO	Upright Exit	M8*4 Connection		5 mm / 8 mm	1
SMB10RC2-B1*	Rectangular 78 mm	1NC+1NO	Right Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMB10RSZ-B1*	Rectangular 78 mm	1NC+1NO	Right Exit	M8*4 Connection		5 mm / 8 mm	1
SMB11LC2-B1*	Rectangular 78 mm	1NC+1NO	Left Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMB11LSX-B1*	Rectangular 78 mm	1NC+1NO	Left Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMB11MC2-B1*	Rectangular 78 mm	1NC+1NO	Upright Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMB11MSX-B1*	Rectangular 78 mm	1NC+1NO	Upright Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMB11RC2-B1*	Rectangular 78 mm	1NC+1NO	Right Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMB11RSX-B1*	Rectangular 78 mm	1NC+1NO	Right Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMB20LC2-B2*	Rectangular 78 mm	2NC	Left Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMB20LSZ-B2*	Rectangular 78 mm	2NC	Left Exit	M8*4 Connection		5 mm / 8 mm	1
SMB20MC2-B2*	Rectangular 78 mm	2NC	Upright Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMB20MSZ-B2*	Rectangular 78 mm	2NC	Upright Exit	M8*4 Connection		5 mm / 8 mm	1
SMB20RC2-B2*	Rectangular 78 mm	2NC	Right Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMB20RSZ-B2*	Rectangular 78 mm	2NC	Right Exit	M8*4 Connection		5 mm / 8 mm	1
SMB21LC2-B2*	Rectangular 78 mm	2NC	Left Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMB21LSX-B2*	Rectangular 78 mm	2NC	Left Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMB21MC2-B2*	Rectangular 78 mm	2NC	Upright Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMB21MSX-B2*	Rectangular 78 mm	2NC	Upright Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMB21RC2-B2*	Rectangular 78 mm	2NC	Right Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMB21RSX-B2*	Rectangular 78 mm	2NC	Right Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMB30LC2-B3*	Rectangular 78 mm	2NC+NO	Left Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMB30LSX-B3*	Rectangular 78 mm	2NC+NO	Left Exit	M12*8 Connection		5 mm / 8 mm	1
SMB30MC2-B3*	Rectangular 78 mm	2NC+NO	Upright Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMB30MSX-B3*	Rectangular 78 mm	2NC+NO	Upright Exit	M12*8 Connection		5 mm / 8 mm	1
SMB30RC2-B3*	Rectangular 78 mm	2NC+NO	Right Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMB30RSX-B3*	Rectangular 78 mm	2NC+NO	Right Exit	M12*8 Connection		5 mm / 8 mm	1
SMB31LC2-B3*	Rectangular 78 mm	2NC+NO	Left Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMB31LSX-B3*	Rectangular 78 mm	2NC+NO	Left Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMB31MC2-B3*	Rectangular 78 mm	2NC+NO	Upright Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMB31MSX-B3*	Rectangular 78 mm	2NC+NO	Upright Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMB31RC2-B3*	Rectangular 78 mm	2NC+NO	Right Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMB31RSX-B3*	Rectangular 78 mm	2NC+NO	Right Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMS10LC2-S1*	Rectangular 22 mm	1NC+1NO	Left Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMS10LSZ-S1*	Rectangular 22 mm	1NC+1NO	Left Exit	M8*4 Connection		5 mm / 8 mm	1
SMS10RC2-S1*	Rectangular 22 mm	1NC+1NO	Right Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMS10RSZ-S1*	Rectangular 22 mm	1NC+1NO	Right Exit	M8*4 Connection		5 mm / 8 mm	1
SMS11LC2-S1*	Rectangular 22 mm	1NC+1NO	Left Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMS11LSX-S1*	Rectangular 22 mm	1NC+1NO	Left Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMS11RC2-S1*	Rectangular 22 mm	1NC+1NO	Right Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMS11RSX-S1*	Rectangular 22 mm	1NC+1NO	Right Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMS20LC2-S2*	Rectangular 22 mm	2NC	Left Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMS20LSZ-S2*	Rectangular 22 mm	2NC	Left Exit	M8*4 Connection		5 mm / 8 mm	1

Note 1: SMB10LC2-B1* code means Actuator and Switch together. Switch code is SMB10LC2, Actuator code is SMB15.

Note 2 : * Refers to Sensing Distance, If it is 5, it means 5 mm sensing distance. If it is 8, it means 8 mm sensing distance.

**Magnetic Switch, IP68**

Code	Body Type	Contact Type	Mounting-Type	Connection	Features	Sensing Distance	Box/Pcs
SMS20RC2-S2*	Rectangular 22 mm	2NC	Right Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMS20RSZ-S2*	Rectangular 22 mm	2NC	Right Exit	M8*4 Connection		5 mm / 8 mm	1
SMS21LC2-S2*	Rectangular 22 mm	2NC	Left Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMS21LSX-S2*	Rectangular 22 mm	2NC	Left Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMS21RC2-S2*	Rectangular 22 mm	2NC	Right Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMS21RSX-S2*	Rectangular 22 mm	2NC	Right Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMS30LC2-S3*	Rectangular 22 mm	2NC+NO	Left Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMS30LSX-S3*	Rectangular 22 mm	2NC+NO	Left Exit	M12*8 Connection		5 mm / 8 mm	1
SMS30RC2-S3*	Rectangular 22 mm	2NC+NO	Right Exit	Wire Connection (2m)		5 mm / 8 mm	1
SMS30RSX-S3*	Rectangular 22 mm	2NC+NO	Right Exit	M12*8 Connection		5 mm / 8 mm	1
SMS31LC2-S3*	Rectangular 22 mm	2NC+NO	Left Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMS31LSX-S3*	Rectangular 22 mm	2NC+NO	Left Exit	M12*8 Connection	LED	5 mm / 8 mm	1
SMS31RC2-S3*	Rectangular 22 mm	2NC+NO	Right Exit	Wire Connection (2m)	LED	5 mm / 8 mm	1
SMS31RSX-S3*	Rectangular 22 mm	2NC+NO	Right Exit	M12*8 Connection	LED	5 mm / 8 mm	1

Note 1: SMB10LC2-B1* code means Actuator and Switch together. Switch code is SMB10LC2, Actuator code is SMB15.

Note 2 : * Refers to Sensing Distance, If it is 5, it means 5 mm sensing distance. If it is 8, it means 8 mm sensing distance.

**Sensor Test Device**

Code
Sensor Tester