

OMRON solution GUIDE

Plastic Injection/Blow Molding Safeguarding

Implementing advanced safety solution to improve production efficiency, and deliver consistent product quality

Key Features:

- F3SG-SR light curtain's IO-Link enables remote process and service data monitoring.
- Sysmac Studio streamlines integration, overseeing all devices from one program for seamless coordination.
- The G9SE has compact dimensions, diagnostic capability, and Category 4 Safety rating.
- D4F Safety Limit switch's high sensitivity enables proactive maintenance, reducing unplanned downtime.

Challenges:

- Adequately safeguarding plastic injection mold machinery while ensuring safe access.
- Maintaining machine uptime and minimizing nuisance trips.
- Establishing efficient emergency stop procedures and rapid machine halting systems.

Why the OMRON Solution:

- D4SL lockout/tagout requires deliberate reactivation with a unique key, preventing worker entrapment.
- F3SG-SR light curtains and muting accessories monitor access points while allowing approved objects to pass.
- G9SA and G9SE swiftly react to breach detection with <15ms response times, ensuring prompt shutdown.

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Safety Input Devices

Part Number	Descriptions
F3SG-4SRB0400-X X	400 cm tall light curtain, Offered in increments of 80 cm
F39-LSGF	F3SGSR Fixed Side Mount Bracket
F39-SGIT-IL3	I-Tap
F39-GCN4 (-D/L)	4 Joint Connector for Muting Actuators, Transmitter and Receiver
F3W-MA0100P	Muting Actuator, 100 mm, Either this or the retro-reflective sensor

(Continued on Reverse)

Safety Input Devices (continued)	
Part Number	Descriptions
F39-FMA150R	Mute Actuator Arm 150mm retro reflective sensor ,Either this or the through beam sensor
F39-LMAF1	Mute Actuator Arm Mounting Bracket
F39-GCN5	Muting Sensor Connection Box
A22NE-MP-PD02-N	Rated E-stop
D41L-1ZDA-N2	Sensor
D41L-A1	Standard actuator
D41L-8P5-CFM12-905M	Cable, 5m,M12 connector, IP69
D41D-1CD-N1	Sensor
D41D-A1	Standard actuator
D41L-8P5-CFM12-905M	Cable, 5m,M12 connector, IP69
D41D-MS	Mounting Kits
D4SL-N2AFG	Compact Guard Locking Safety Switch solenoid lock
D4SL-NK1	Horizontal mounting operation key for D4SL-N
D4SL-CN3	Connector cable for D4SL-N, 3m - offered in 1m 3m or 5m
D4C-1601/D4C-1602	Limit switch
Logic Safety Devices	
G9SA-301 AC/DC24 G9SA-501 AC/DC24	G9SA safety relay - 3 or 5 safety outputs
G9SE-201/G9SE-401	G9SE safety relay - 2 or 4 safety outputs
Safety Controller Offerings	
G9SP Safety Controllers	
G9SP-N10S	For small-midsized applications
CP1W-20EDT/CP1W-WOEDT1	Expansion i/o unit - Sinking(T) or sourcing(T1) types
SP1W-CN811	80 cm (for connecting distant units)
CP1W-CIF01/CP1W-CIF41/CM-EIP-1	Communication modules (RS-232 Serial, Ethernet/FNS
P1W-ME05M	Cassette Tape
NX-SL3 Safety Controllers	
NX-SL3300	256 safety I/O and 32 safety connections
NX-SL3500	1024 safety I/O and 128 safety connections
NX-SID400 NX-SID800	Input unit - 4 or 8 safety input, 2 test
NX-SOH200 NX-SOD400	Output Unit - 2 or 4 safety outputs
NX-SL5 Safety Controllers	
NX-SL5500	1024 safety I/O and 128 safety connections
NX-SL5700	2032 safety I/O and 254 safety connections
NX-CSG320	Communication Unit, Ethernet/IP
NX-SID400 NX-SID800	Input unit - 4 or 8 safety input, 2 test
NX-SOH200 NX-SOD400	Output Unit - 2 or 4 safety outputs (PNP)
HMC-SD291/491	Option SD Memory SD - Flash Memory 2GB or 4GB