

Troubleshooting

G9SX Series

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Flexible Safety Unit G9SX-AD□/BC/EX





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Advanced Unit G9SX-AD322-□ Troubleshooting

When the G9SX-AD322- \square detects a fault, the ERR indicator and/or other indicators light up or blink to inform the user about the fault. Check and take necessary measures referring to the following table, and then re-supply power to the G9SX-AD322- \square .

	Indicator	Expected causes	Check points and measures to take
ERR blinks	OMRON G9SX-AD322-T15 24VDC PWR FB T1 T2 AND BEI ED OFF-DELAY No.	Fault due to electro-magnetic disturbance or of internal circuits. 1) Excessive electro-magnetic disturbance 2) Failure of the internal circuit	Check the disturbance level around the G9SX and the related system. Replace with a new product.
		Fault involved with safety input 1	
ERR lights up, T1 blinks	OFF-DELAY No.	Failure involving the wiring of safety input 1 Incorrect setting of cross fault detection input 3) Failure of the circuit of safety input 1	1) Check the wiring to T11 and T12. 2) Check the wiring to Y1. 3) Replace with a new product.
		Fault involved with safety input 2	
ERR lights up, T2 blinks	GSSX-AD322-T15 24VDC PWR FB T1 T2 Blinking AND EE ED OFF-DELAY No.	1) Failure involved with safety input 2 2) Incorrect setting of cross fault detection input 3) Failure of circuits of safety input 2	 Check the wiring to T21 and T22. Check the wiring to Y1. Replace with a new product.
		Faults involved with feedback/reset input	
ERR lights up,	G9SX-AD322-T15 24VDC PWR FB Blinking T1 T2	Pailures involving the wiring of feedback/ reset input Pailures of the circuit of feedback/reset input Fault in Expansion Unit Improper feedback signals from Expansion	 1) Check the wiring to T31, T32 and T33. 2) Replace with a new product. 1) Check the connecting cable of Expansion
FB blinks	EI ED O Lit	Unit 2) Abnormal supply voltage to Expansion Unit	Unit and the connection of the termination socket. 2) Check the supply voltage to Expansion Unit. Note: Make sure that all Expansion units' PWR indicators are lit.
		Failure of the circuit of safety relay contact outputs	3) Replace the Expansion Unit with a new one.
ERR lights up, El blinks	OTRON G9SX-AD322-T15 24VDC PWR FB T1 T2 AND Blinking ED OFF-DELAY No. OFF-DELAY No.	Fault involved with instantaneous safety outputs or logical AND connection outputs or auxiliary monitor output 1) Failure involving the wiring of instantaneous safety outputs 2) Failure of the circuit of Instantaneous safety outputs 3) Failure involving the wiring of the logical AND connection output 4) Failure of the circuit of the logical AND connection output 5) Failure involving the wiring of the auxiliary monitor output	 Check the wiring to S14, S24, and S34. Replace with a new product. Check the wiring to L1. Replace with a new product. Check the wiring to X1.

	Indicator	Expected causes	Check points and measures to take
ERR lights up, ED blinks	GSX-AD322-T15 24VDC PWR FB T1 T2 AND BI CO 7 1152 3 4 CO 7 15 5 ERR OFF-DELAY No.	Fault involved with OFF-delayed safety outputs 1) Failure involving the wiring of OFF-delayed safety relay contact outputs 2) Incorrect set values for OFF-delay time 3) Failure of the circuit of OFF-delayed safety relay contact outputs 4) Impermissible high ambient temperature	 Check the wiring to S44 and S54. Confirm the set values of the two OFF-delay time preset switches. Replace with a new product. Check the ambient temperature and spacing around the G9SX.
ERR lights up, AND blinks	OIRON G9SX-AD322-T15 24VDC PWR FB T1 T2 Blinking AND EEE ED OFF-DELAY No.	Fault involved with logical AND connection input 1) Failure involving the wiring of the logical AND connection input 2) Incorrect setting for the logical AND connection input 3) Failure of the circuit of the logical AND connection input	1) Check the wiring to T41 and T42. Note: Make sure that the wiring length for the T41 and T42 terminal is less than 100 meters. Note: Make sure that the logical AND connection signal is branched for less than 4 units. 2) Confirm the set value of the logical AND connection preset switch. 3) Replace with a new product.
ERR lights up, all indicators except PWR blink	G9SX-AD322-T15 24VDC PPWR FB T1 T2 Blinking AND EI ED OFF-DELAY No.	Supply voltage outside the rated value 1) Supply voltage outside the rated value	1) Check the supply voltage to the Units.

	Indicator	Expected causes	Check points and measures to take
ERR does not light up, T1 or T2 blinks	OIRON G9SX-AD322-T15 24VDC PWR FB AND Blinking T1 T2 AND OFF-DELAY No. Or OIRON G9SX-AD322-T15 24VDC	Expected causes Mismatch between input 1 and input 2. The input status between input 1 and input 2 is different, due to contact failure or a short circuit of safety input device(s) or a wiring fault.	Check points and measures to take Check the wiring from safety input devices to the G9SX. Or check the input sequence of safety input devices. After removing the fault, turn both safety inputs to the OFF state.
	PWR FB T1 T2 Blinking AND EI ED 03 115 3 5 ERR OFF-DELAY		

Advanced Unit G9SX-ADA222-□ Troubleshooting

When the G9SX-ADA222- \square detects a fault, the ERR indicator and/or other indicators light up or blink to inform the user about the fault. Check and take necessary measures referring to the following table, and then re-supply power to the G9SX-ADA222- \square .

	Indicator	Expected causes	Check points and measures to take
ERR blinks	OMRON G9SX-ADA222-T150 24VDC PWR FB T1 T2 AND1 AND2 BE EDD OFF-DELAY No.	Fault due to electro-magnetic disturbance or of internal circuits. 1) Excessive electro-magnetic disturbance 2) Failure of the internal circuit	Check the disturbance level around the G9SX and the related system. Replace with a new product.
ERR lights up, T1 blinks	DINKON GSSX-ADA222-T150 24VDC PWR FB TT T2 ANDI ANDI ANDI OFF-DELAY No.	Fault involved with safety input 1 1) Failure involving the wiring of safety input 1 2) Incorrect setting of cross fault detection input 3) Failure of the circuit of safety input 1	1) Check the wiring to T11 and T12. 2) Check the wiring to Y1. 3) Replace with a new product.
ERR lights up, T2 blinks	GSSX-ADA222-T150 24VDC PWR FB T1 T2 AND1 AND2 AND1 AND2 EBD OFF-DELAY No.	Fault involved with safety input 2 1) Failure involving the wiring of safety input 2 2) Incorrect setting of cross fault detection input 3) Failure of circuits of safety input 2	1) Check the wiring to T21 and T22. 2) Check the wiring to Y1. 3) Replace with a new product.
ERR lights up, FB blinks	G9SX-ADA222-T150 24VDC PWR FB ANDI ANDI ANDI EI ED OFF-DELAY No.	Faults involved with feedback/reset input 1) Failures involving the wiring of feedback/ reset input 2) Failures of the circuit of feedback/reset input Fault in Expansion Unit 1) Improper feedback signals from Expansion Unit 2) Abnormal supply voltage to Expansion Unit 3) Failure of the circuit of safety relay contact outputs	1) Check the wiring to T31, T32 and T33. 2) Replace with a new product. 1) Check the connecting cable of Expansion Unit and the connection of the termination socket. 2) Check the supply voltage to Expansion Unit. Note: Make sure that all Expansion units' PWR indicators are lit. 3) Replace the Expansion Unit with a new one.
ERR lights up, El blinks	G9SX-ADA222-T150 24VDC PWR FB T1 T2 AND1 AND2 Blinking EI ED OFF-DELAY No.	Fault involved with instantaneous safety outputs or logical AND connection outputs or auxiliary monitor output 1) Failure involving the wiring of instantaneous safety outputs 2) Failure of the circuit of Instantaneous safety outputs 3) Failure involving the wiring of the logical AND connection output 4) Failure of the circuit of the logical AND connection output 5) Failure involving the wiring of the auxiliary monitor output 6) Impermissible high ambient temperature	 Check the wiring to S14 and S24. Replace with a new product. Check the wiring to L1 and L2. Replace with a new product. Check the wiring to X1. Check the ambient temperature and spacing around the G9SX.

	Indicator	Expected causes	Check points and measures to take
ERR lights up, ED blinks	G9SX-ADA222-T150 24VDC PWR FB T1 T2 AND1 AND2 BIINKING OFF-DELAY No.	Fault involved with OFF-delayed safety outputs 1) Failure involving the wiring of OFF-delayed safety relay contact outputs 2) Incorrect set values for OFF-delay time 3) Failure of the circuit of OFF-delayed safety relay contact outputs 4) Impermissible high ambient temperature	1) Check the wiring to S44 and S54. 2) Confirm the set values of the two OFF-delay time preset switches. 3) Replace with a new product. 4) Check the ambient temperature and spacing around the G9SX.
ERR lights up, AND1 or AND2 blinks	OFF-DELAY OFF-DELAY OFF-DELAY OFF-DELAY OFF-DELAY OFF-DELAY OFF-DELAY No. Binking OFF-DELAY No. Binking Dinking Binking Binking	Fault involved with logical AND connection input 1) Failure involving the wiring of the logical AND connection input 2) Incorrect setting for the logical AND connection input 3) Failure of the circuit of the logical AND connection input	1) Check the wiring to T41 and T42 (T51 and T52). Note: Make sure that the wiring length for the T41, T42, T51, T52 terminal is less than 100 meters. Note: Make sure that the logical AND connection signal is branched for less than 4 units. 2) Confirm the set value of the logical AND connection preset switch. 3) Replace with a new product.
ERR lights up, all indicators except PWR blink	GSSX-ADA222-T150 24VDC PWR FB T1 T2 AND1 AND2 BINKing BINKing OFF-DELAY No.	Supply voltage outside the rated value 1) Supply voltage outside the rated value	1) Check the supply voltage to the Units.

G9SX-ADA222-□

	Indicator	Expected causes	Check points and measures to take
	omron	Mismatch between input 1 and input 2.	
ERR does not	Blinking T1 T2 AND1 AND2 Blinking T1 T2 AND1 AND2 BE ED OFF-DELAY No. No.	The input status between input 1 and input 2 is different, due to contact failure or a short circuit of safety input device(s) or a wiring fault.	Check the wiring from safety input devices to the G9SX. Or check the input sequence of safety input devices. After removing the fault, turn both safety inputs to the OFF state.
light up,	Or		
T1 or T2 blinks	OMRON G9SX-ADA222-T150 24VDC PWR FB T1 T2 AND1 AND2 Blinking AND1 AND2 BE BED OFF-DELAY No.		

MEMO

G9SX-BC202-□

Basic Unit G9SX-BC202-☐ Troubleshooting

When the G9SX-BC202-□ detects a fault, the ERR indicator and/or other indicators light up or blink to inform the user about the fault. Check and take necessary measures referring to the following table, and then re-supply power to the G9SX-BC202-□.

	Indicator	Expected causes	Check points and measures to take
	omron	Fault due to electro-magnetic disturbance or of internal circuits.	
	G9SX-BC202 24VDC	Excessive electro-magnetic disturbance	Check the disturbance level around the G9SX and the related system.
	PWR FB	2) Failure of the internal circuit	Replace with a new product.
ERR blinks	■ T1 T2 ■ ■ Blinking No.		
		Fault involved with safety input 1	
	OMRON G9SX-BC202	1) Failure involving the wiring of safety input 1	1) Check the wiring to T11 and T12.
	24VDC	2) Incorrect setting of cross fault detection input	2) Check the wiring to Y1.
ERR lights up, T1 blinks	PWR FB Blinking → T1 T2 BEI ERR Lit	Failure of the circuit of safety input 1	3) Replace with a new product.
	No.		
	omron	Fault involved with safety input 2	
	G9SX-BC202 24VDC	1) Failure involving the wiring of safety input 2	1) Check the wiring to T21 and T22.
		2) Incorrect setting of cross fault detection input3) Failure of circuits of safety input 2	2) Check the wiring to Y1.3) Replace with a new product.
ERR lights up,	PWR FB	of Fanare of chedits of safety input 2	of replace with a new product.
T2 blinks	■T1 T2 ■ ■ Blinking		
	□EI ERR □ ← Lit		
		Faults involved with feedback/reset input	A) Observation to TOA TOO and TOO
	OMRON G9SX-BC202	Failures involving the wiring of feedback/ reset input	1) Check the wiring to T31, T32 and T33.
	24VDC	2) Failures of the circuit of feedback/reset input	2) Replace with a new product.
	PWR FB → Blinking	Fault in Expansion Unit	
ERR lights up, FB blinks	□ T1 T2 □ □ EI ERR □ ← Lit	Improper feedback signals from Expansion Unit	Check the connecting cable of Expansion Unit and the connection of the termination socket.
	No.	2) Abnormal supply voltage to Expansion Unit	Check the supply voltage to Expansion Unit. Note: Make sure that all Expansion units' PWR indicators are lit.
		Failure of the circuit of safety relay contact outputs	3) Replace the Expansion Unit with a new one.
	OMRON	Fault involved with instantaneous safety outputs or logical AND connection outputs or auxiliary monitor output	
	G9SX-BC202 24VDC	Failure involving the wiring of instantaneous safety outputs	1) Check the wiring to S14 and S24.
	PWR FB	Failure of the circuit of Instantaneous safety outputs	2) Replace with a new product.
ERR lights up, El blinks	Blinking Blinking El ERR Lit	Failure involving the wiring of the logical AND connection output	3) Check the wiring to L1 and L2.
	71.0	Failure of the circuit of the logical AND connection output	4) Replace with a new product.
	No.	Failure involving the wiring of the auxiliary monitor output	5) Check the wiring to X1.
		6) Impermissible high ambient temperature	6) Check the ambient temperature and spacing around the G9SX.

	Indicator	Expected causes	Check points and measures to take
ERR lights up, all indicators except PWR blink	OFRON G9SX-BC202 24VDC PWR FB Blinking T1 T2 Lit No.	Supply voltage outside the rated value 1) Supply voltage outside the rated value	Check the supply voltage to the Units.

	Indicator	Expected causes	Check points and measures to take
	OPPOD	Mismatch between input 1 and input 2.	
ERR does not light up, T1 or T2 blinks	OFRON GSSX-BC202 24VDC PWR FB Blinking T1 T2 EI ERR Not lit No. OF OFRON G9SX-BC202 24VDC PWR FB T1 T2 Blinking FI ERR Not lit No.	The input status between input 1 and input 2 is different, due to contact failure or a short circuit of safety input device(s) or a wiring fault.	Check the wiring from safety input devices to the G9SX. Or check the input sequence of safety input devices. After removing the fault, turn both safety inputs to the OFF state.

G9SX-EX401- G9SX-EX041-T-

Expansion Unit G9SX-EX401-□ **Troubleshooting**

	Indicator	Expected causes	Check points and measures to take
	OMRON G9SX-EX401	Fault involved with safety relay outputs of Expansion Units	
	24VDC	1) Welding of relay contacts	Replace with a new product.
	PWR	2) Failure of the internal circuit	
	■ EI		
RR lights up	Lit		
	No.		

Expansion Unit (OFF-delayed Model) G9SX-EX041-T Troubleshooting

	Indicator	Expected causes	Check points and measures to take
ERR lights up	OMRON G9SX-EX041-T 24VDC PWR DED ERR	Fault involved with safety relay outputs of Expansion Units 1) Welding of relay contacts 2) Failure of the internal circuit	Replace with a new product.

MEMO

G9SX-GS226-T15-□

Safety Guard Switching Unit G9SX-GS226-T15-□ Troubleshooting

When the G9SX-GS226-T15-□ detects a fault, the ERR indicator and/or other indicators light up or blink to inform the user about the fault. Check and take necessary measures referring to the following table, and then re-supply power to the G9SX-GS226-T15-□.

	Indicator	Expected causes	Check points and measures to take
ERR blinks	OMRON G9SX-GS226-T15 24VDC PWR FB AND T1 UA T2 T6 UB T7 EI ED OR DERR Blinking OFF-DELAY	Fault due to electro-magnetic disturbance or of internal circuits. 1) Excessive electromagnetic disturbance 2) Failure of the internal circuit	Check the disturbance level around the G9SX and the related system. Replace with a new product.
ERR lights up, T1 blinks	Blinking T1 UA T2 T6 UB T7 ED OFF-DELAY No.	Fault involved with safety input A, channel 1 1) Failure involving the wiring of safety input A channel 1 2) Incorrect setting of cross fault detection input 3) Failure of the circuit of safety input A channel 1	 Check the wiring to T11 and T12. Check the wiring to Y1. Replace with a new product.
ERR lights up, T2 blinks	GSX-GS226-T15 24VDC PWR FB AND T1 UA T2 Blinking T6 UB T7 EI ED OFF-DELAY No.	Fault involved with safety input A, channel 2 1) Failure involving the wiring of safety input A channel 2 2) Incorrect setting of cross fault detection input 3) Failure of the circuit of safety input A channel 2	 Check the wiring to T21 and T22. Check the wiring to Y1. Replace with a new product.
ERR lights up, T6 blinks	OMRON G9SX-GS226-T15 24VDC PWR FB AND T1 UA T2 Blinking T6 UB T7 EL ED OFF-DELAY No.	Fault involved with safety input B, channel 1 1) Failure involving the wiring of safety input B channel 1 2) Incorrect setting of cross fault detection input 3) Failure of the circuit of safety input B channel 1	 Check the wiring to T61 and T62. Check the wiring to Y2. Replace with a new product.
ERR lights up, T7 blinks	OMRON G9SX-GS226-T15 24VDC PWR FB AND T1 UA T2 T6 UB T7 Blinking C7 11523 C6 C3 C2 151 OFF-DELAY No.	Fault involved with safety input B, channel 2 1) Failure involving the wiring of safety input B channel 2 2) Incorrect setting of cross fault detection input 3) Failure of the circuit of safety input B channel 2	 Check the wiring to T71 and T72. Check the wiring to Y2. Replace with a new product.

Fault involved with feedback/reset input Common Comm		Indicator	Expected causes	Check points and measures to take
FRR lights up. ERR lights up.				-
ERR lights up, FB blinks ERR lights up, FB			Failures involving the wiring of	1) Check the wiring to T31, T32 and T33.
FRR lights up, ERR lights up, ED blinks ERR lights up, ERR lights up, ERR lights up, ERR lights up, ED blinks ERR lights up, ERR lights up, ERR lights up, ERR lights up, ED blinks ERR lights up, ERR lights up, ERR lights up, ED blinks ERR lights up, ERR lights up, ERR lights up, ERR lights up, ED blinks ERR lights up, ERR lights up, ERR lights up, ED blinks ERR lights up, ERR lights up, ERR lights up, ERR lights up, ED blinks ERR lights up, ERR lights up, ERR lights up, ED blinks ERR lights up, ED blinks ERR lights up, ERR lights u		24VDC Blinking	, ,	2) Replace with a new product.
FB blinks Common		■T1 ■UA ■T2	Fault in Expansion Unit	
2) Abnormal supply voltage to Expansion Unit Note: Make sure that all Expansion units' PWR Indicators are lit. 3) Failure of the circuit of safety relay contact outputs Fault involved with instantaneous safety outputs or logical AND connection outputs 1) Check the wiring to S14 and S24. 2) Replace with a new product. 2) Replace with a new product. 3) Failure involving the wiring of instantaneous safety outputs 2) Replace with a new product. 3) Failure involving the wiring of the logical AND connection output 4) Failure involving the wiring of the logical AND connection output 5) Impermissible high ambient special AND connection output 6) PWR BI AND DIRECTION OSSX-GS226-T15 2) Incorrect set values for OFF-delayd safety outputs 7) Check the wiring to S14 and S54. 3) Failure of the circuit of OFF-delayd safety outputs 7) Check the wiring to S44 and S54. 3) Failure of the circuit of OFF-delayd ime special values for OFF-delayd ime special values		EI		Expansion Unit and the connection of
PVR Indicators are it. 3) Failure of the circuit of safety relay contact outputs Fault involved with instantaneous safety outputs or logical AND connection outputs 1) Check the wiring to S14 and S24. 2) Replace with a new product. 3) Check the wiring to S14 and S24. 3) Check the wiring to L1. 4) Replace with a new product. 3) Check the wiring to L1. 4) Replace with a new product. 5) Impermissible high ambient temperature and spacing around the G9SX. ERR lights up, ED blinks ERR lights up,		0.45 5 5 0.3 0.20 15 10		Unit.
ERR lights up. AND blinks ERR lights up. AND light				
Safety outputs 1) Failure involving the wiring of instantaneous safety outputs 1) Check the wiring to S14 and S24. 2) Replace with a new product. Safety outputs 3) Failure involving the wiring of the logical AND connection output 4) Failure of the circuit of the logical AND connection output 5) Impermissible high ambient emperature and spacing around the G9SX. Fault involved with OFF-delayd safety outputs 1) Check the wiring to S14 and S24. 3) Check the wiring to L1. 4) Replace with a new product. Solve the marked the indicated the circuit of the logical AND connection output 5) Impermissible high ambient emperature and spacing around the G9SX. Fault involved with OFF-delayd safety outputs 2) Incorrect set values for OFF-delayd time effects with a new product. 3) Failure of the circuit of OFF-delayd time effects with a new product. 3) Failure of the circuit of OFF-delayd time effects with a new product. 4) Check the ambient temperature and spacing around the G9SX. Fault involved with logical AND connection input 1) Check the wiring to S14 and S24. 4) Check the ambient temperature and spacing around the G9SX. Fault involved with logical AND connection input 1) Check the wiring to S14 and S24. 4) Check the ambient temperature and spacing around the G9SX. Fault involved with logical AND connection input 1) Check the wiring to S14 and S24. 1) Check the wiring to S14 and S24. 2) Confirm the set values of the OFF-delayd safety relay contact outputs 4) Impermissible high ambient temperature and spacing around the G9SX. Fault involved with logical AND connection input 1) Check the wiring to S14 and S24. 2) Confirm the set values of the OFF-delayd safety relay contact outputs 4) Check the wiring of the logical AND connection input 1) Check the wiring of the logical AND connection input 2) Check the wiring of the logical AND connection input 3) Failure of the circuit of the logical AND connection input 3) Failure of the circuit of the logical AND connection input 4) Check the wiring of				
ERR lights up, EI blinks ERR lights up, ED blinks ERR lights up, ED blinks ERR lights up, AND blinks ERR lights up, AND blinks ERR lights up, AND blinks ERR lights up, EI blinks ERR lights up, AND blinks ERR lights up, EI blinks ERR lights up, EI blinks ERR lights up, AND blinks ERR lights up, ERR and AND blinks ERR lights up, ERR a		G9SX-GS226-T15	safety outputs or logical AND	
ERR lights up. AND blinks ERR lights up. AND connection input 1) Check the wiring to L1. 2) Confirm the set value of the logical AND connection input 2) Confirm the set value of the logical AND connection input 3) Failure not the circuit of the logical AND connection preset switch. 3) Failure intolived with Defical AND connection input 3) Failure intolived with Defical AND connection pr		PWR FB AND		1) Check the wiring to S14 and S24.
3) Check the wiring to L1. 3) Failure involving the wiring of the logical AND connection output 4) Failure of the circuit of the logical AND connection output 5) Impermissible high ambient temperature and spacing around the G9SX. Fault involved with OFF-delayed safety outputs 1) Check the ambient temperature and spacing around the G9SX. Fault involved with OFF-delayed safety outputs 1) Check the wiring to S44 and S54. delayed safety relay contact outputs 2) Incorrect set values for OFF-delayed safety relay contact outputs 4) Replace with a new product. 2) Confirm the set values of the OFF-delayed safety relay contact outputs 4) Impermissible high ambient temperature and spacing around the G9SX. Fault involved with Involved		■T6 ■UB ■T7		2) Replace with a new product.
Connection output 5) Impermissible high ambient temperature and spacing around the G9SX. Fault involved with OFF-delayed safety outputs 1) Failure involving the wiring of OFF-delayed safety relay contact outputs 2) Incorrect set values for OFF-delayed safety relay contact outputs 2) Incorrect set values for OFF-delayed safety relay contact outputs 3) Failure of the circuit of OFF-delayed safety relay contact outputs 4) Impermissible high ambient temperature and spacing around the G9SX. Fault involved with OFF-delayed safety relay contact outputs 4) Impermissible high ambient temperature and spacing around the G9SX. Fault involved with logical AND connection input Fault involved with logical AND connection input Fault involved with logical AND connection input 1) Check the wiring to T41 and T42. Note: Make sure that the wiring length for the T41, T42 terminal is less than 100 meters. Note: Make sure that the logical AND connection signal is branched for less than 4 units. 2) Incorrect setting for the logical AND connection signal is branched for less than 4 units. 2) Incorrect setting for the logical AND connection preset switch. 3) Failure of the circuit of the logical AND connection preset switch. 3) Failure of the circuit of the logical AND connection preset switch. 3) Failure of the circuit of the logical AND connection preset switch. 3) Failure of the circuit of the logical AND connection preset switch. 3) Failure of the circuit of the logical AND connection preset switch. 3) Replace with a new product.	EI DIINKS	Blinking EI ED		3) Check the wiring to L1.
ERR lights up, ED blinks ERR lights up, AND blinks		0.45 (1) 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		4) Replace with a new product.
Outputs 1) Failure involving the wiring of OFF-delay time delayed safety relay contact outputs 2) Incorrect set values for OFF-delay time delayed safety relay contact outputs 2) Incorrect set values for OFF-delay time delayed safety relay contact outputs 3) Failure of the circuit of OFF-delayed safety relay contact outputs 4) Impermissible high ambient temperature and spacing around the G9SX. Fault involved with logical AND connection input Fault involved with logical AND connection input 1) Check the wiring to S44 and S54. Check the wirin			, , ,	
ERR lights up, ED blinks ERR lights up, ED blinks ERR lights up, AND blin		OMROD		
ERR lights up, ED blinks 2) Incorrect set values for OFF-delay time 2) Confirm the set values of the OFF-delay time preset switches on the front and back of the Unit. 3) Failure of the circuit of OFF-delayed safety relay contact outputs 4) Impermissible high ambient temperature and spacing around the G9SX. Fault involved with logical AND connection input 1) Check the wiring to T41 and T42. Note: Make sure that the wiring length for the T41, T42 terminal is less than 100 meters. Note: Make sure that the logical AND connection signal is branched for less than 4 units. 2) Incorrect setting for the logical AND connection input 3) Failure of the circuit of the logical AND connection put 3) Failure of the circuit of the logical AND connection preset switch. 3) Replace with a new product.		G9SX-GS226-T15 24VDC	Failure involving the wiring of OFF-	1) Check the wiring to S44 and S54.
3) Failure of the circuit of OFF-delayed safety relay contact outputs 4) Impermissible high ambient temperature and spacing around the G9SX. Fault involved with logical AND connection input 1) Failure involving the wiring of the logical AND connection input 1) Check the wiring to T41 and T42. Note: Make sure that the wiring length for the T41, T42 terminal is less than 100 meters. Note: Make sure that the logical AND connection signal is branched for less than 4 units. 2) Incorrect setting for the logical AND connection preset switch. 3) Replace with a new product. 4) Check the ambient temperature and spacing around the G9SX. 1) Check the wiring to T41 and T42. Note: Make sure that the wiring length for the T41, T42 terminal is less than 100 meters. Note: Make sure that the logical AND connection signal is branched for less than 4 units. 2) Confirm the set value of the logical AND connection preset switch. 3) Replace with a new product.		T1	, , , , ,	delay time preset switches on the front
ERR lights up, AND blinks Fault involved with logical AND connection input 1) Check the wiring to T41 and T42. Note: Make sure that the wiring length for the T41, T42 terminal is less than 100 meters. Note: Make sure that the logical AND connection signal is branched for less than 4 units. 2) Incorrect setting for the logical AND connection put 2) Incorrect setting for the logical AND connection put 3) Failure of the circuit of the logical AND connection input 3) Replace with a new product.	LD DIIIING	□ EI □ ED ← □ Blinking		3) Replace with a new product.
ERR lights up, AND blinks ERR lights up, AND blinks ERR lights up, AND blinks Connection input 1) Failure involving the wiring of the logical AND connection input 1) Check the wiring to T41 and T42. Note: Make sure that the wiring length for the T41, T42 terminal is less than 100 meters. Note: Make sure that the logical AND connection signal is branched for less than 4 units. 2) Incorrect setting for the logical AND connection preset switch. 3) Failure of the circuit of the logical AND connection input 3) Replace with a new product.		03 02016 03 02016 0FF-DELAY No.		
ERR lights up, AND blinks ERR lights up, AND blinks ERR lights up, AND blinks Connection input 1) Failure involving the wiring of the logical AND connection input 1) Check the wiring to T41 and T42. Note: Make sure that the wiring length for the T41, T42 terminal is less than 100 meters. Note: Make sure that the logical AND connection signal is branched for less than 4 units. 2) Incorrect setting for the logical AND connection preset switch. 3) Failure of the circuit of the logical AND connection input 3) Replace with a new product.			Fault involved with logical AND	
ERR lights up, AND blinks ERR lights up, AND blinks 1) Failure involving the wiring of the logical AND connection input 1) Check the wiring to 141 and 142. Note: Make sure that the wiring length for the T41, T42 terminal is less than 100 meters. Note: Make sure that the logical AND connection signal is branched for less than 4 units. 2) Incorrect setting for the logical AND connection input 3) Failure of the circuit of the logical AND connection preset switch. 3) Replace with a new product.			connection input	
ERR lights up, AND blinks Note: Make sure that the logical AND connection signal is branched for less than 4 units. 2) Incorrect setting for the logical AND connection input 3) Failure of the circuit of the logical AND connection input 3) Replace with a new product.		24VDC AND Blinking		Note: Make sure that the wiring length for the T41, T42 terminal is less than
2) Incorrect setting for the logical AND connection input 2) Confirm the set value of the logical AND connection preset switch. 3) Failure of the circuit of the logical AND connection preset switch. 3) Replace with a new product.		□EI □ED		connection signal is branched for
3) Failure of the circuit of the logical AND connection input 3) Replace with a new product.		0.45 5 5 0.3 0.20 15 10		
Fault involved with the external		OT BLEAT		3) Replace with a new product.
OMRON indicator output (UA)		OMRON	Fault involved with the external indicator output (UA)	
G9SX-GS226-T15 24VDC 1) Failure involving the wiring of the external indicator output.		G9SX-GS226-T15 24VDC	Failure involving the wiring of the	1) Check the wiring to UA.
ERR lights up, UA blinks ERR lights up, UB light ligh		T1 UA TT Blinking	Failure involving the wiring of the external indicator diagnosis switching	Note: When no indicator is connected, or an LED indicator is connected,
3) Failure of the circuit of the external indicator output		0.67 1 1 4 4 0.6		3) Replace with a new product.
OFF-DFI AV No. 4) Failure of the external indicator 4) Poples the connected external		OFF-DELAY No.	4) Failure of the external indicator	Replace the connected external indicator.

G9SX-GS226-T15-□

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	Indicator	Expected causes	Check points and measures to take
ERR lights up, UB blinks	OFF-DELAY	Fault involved with the external indicator output (UB) 1) Failure involving the wiring of the external indicator output 2) Failure involving the wiring of the external indicator diagnosis switching input 3) Failure of the circuit of the external indicator output 4) Failure of the external indicator	1) Check the wiring to UB. 2) Check the wiring to Y4. Note: When no indicator is connected, or an LED indicator is connected, connect Y4 to 24 V. 3) Replace with a new product. 4) Replace the connected external indicator.
ERR lights up, UA and UB alternately blink	OFF-DELAY OFRON G9SX-GS226-T15 24VDC PWR FB AND T1 UA T2 Alternately blinking ED OFF-DELAY No.	Fault involved with the Switching Function 1) Failure involving the setting of the Switching Function setting switch 2) Failure involving the wiring of the mode selector input 3) Failure involving the circuit of the mode selector input 4) Failure involving the mode selector switching time	 Check the setting of the Switching Function setting switch. Check the wiring to M1 and M2. Replace with a new product. Check the signal switching time of the mode selector input (M1, M2).
ERR lights up, all indicators except PWR blink	G9SX-GS226-T15 24VDC PWR FB AND T1 UA T2 T6 UB T7 Blinking OFF-DELAY	Supply voltage outside the rated value 1) Supply voltage outside the rated value	Check the supply voltage to the Units.

	Indicator	Expected causes	Check points and measures to take
	OPPOR	Safety input A mismatch	
ERR does not	Blinking T1 UA TE Blinking T1 UA T2 T6 UB T7 ED OS OS OS OS OS OFF-DELAY No.	The input status between safety input A channel 1 and safety input A channel 2 is different, due to contact failure or a short circuit of safety input device(s) or a wiring fault.	Check the wiring from safety input devices to the G9SX. Or check the input sequence of safety input devices. After removing the fault, turn both safety input A channels 1 and 2 to the OFF state.
light up,	Or		
T1 or T2 blinks	OMRON G9SX-GS226-T15 24VDC PWR FB AND T1 UA T2 Blinking T6 UB T7 EI ED OA O		
	OMRON	Safety input B mismatch	
ERR does not	G9SX-GS226-T15 24VDC PWR FB AND T1 UA T2 Blinking T6 UB T7 BEL OFF-DELAY No.	The input status between safety input B channel 1 and safety input B channel 2 is different, due to contact failure or a short circuit of safety input device(s) or a wiring fault.	Check the wiring from safety input devices to the G9SX. Or check the input sequence of safety input devices. After removing the fault, turn both safety input B channels 1 and 2 to the OFF state.
light up,	Or		
T6 or T7 blinks	OMRON G9SX-GS226-T15 24VDC PWR FB AND T1 UA T2 T6 UB T7 Blinking FL OFF-DELAY No.		

Standstill Monitoring Unit G9SX-SM032-□ Troubleshooting

When the G9SX-SM032- \square detects a fault, the ERR indicator and/or other indicators light up or blink to inform the user about the fault. Check and take necessary measures referring to the following table, and then re-supply power to the G9SX-SM032- \square .

	Indicator	Expected causes	Check points and measures to take
ERR blinks	GSX-SM032 24VDC PWR DEDM CH1 CH2 ES SET Blinking ERR 12 14 18 18 18 18 18 18 18 18 18 18 18 18 18	Fault by electro-magnetic disturbance or of internal circuits. 1) Excessive electro-magnetic disturbance 2) Failure of the internal circuit	Check the disturbance level around G9SX and its related system. Replace with a new product.
ERR lights up, CH1 blinks	G9SX-SM032 24VDC PWR BEDM CH1 CH2 ES SET Lit ERR 12 14 16 18 30 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Faults involved with Standstill detection input 1 1) Failure involving the wiring of standstill detection input 1 2) Inverter dynamic brake setting 3) Failure of the circuit of standstill detection input 1	 Check the wiring to Z1 and Z2. Set the brake time at less than 30 seconds. Replace with a new product.
ERR lights up, CH2 blinks	G9SX-SM032 24VDC PWR BEDM CH1 CH2 Blinking ES SET Lit ERR 12 14 16 18 30 18 22 24 0 4 2 1 30 DET TIME No.	Faults involved with Standstill detection input 2 1) Failure involving the wiring of standstill detection input 2 2) Inverter dynamic brake setting 3) Failure of the circuit of standstill detection input 2	 Check the wiring to Z3 and Z4. Set the brake time at less than 30 seconds. Replace with a new product.
ERR lights up, CH1 and CH2 simultaneously blink	G9SX-SM032 24VDC PWR DEDM CH1 CH2 Simultaneously blinking ES SET Lit Separation of the separation	Faults involved with Standstill detection input 1) Frequency of standstill detection input is out range.	Confirm the operation frequency of the motor is 120 Hz or less.
ERR lights up, EDM blinks	GSSX-SM032 24VDC □PWR □EDM → Blinking □CH1 □CH2 □ES □SET Lit → □ERR 141618, 221 6	Faults involved with EDM input 1) Failure involving the wiring of EDM input 2) Excessive electro-magnetic disturbance 3) Failure of the circuit of the EDM input	1) Check the wiring to T31 and T32. 2) Separately wire to T31 and T32 from the power line etc. of the inverter. 3) Replace with a new product.

	Indicator	Expected causes	Check points and measures to take
	G9SX-SM032 24VDC PWR DEDM	Faults involved with Safety Standstill detection outputs 1) Failure involving the wiring of Safety standstill detection outputs 2) Excessive electro-magnetic disturbance	Check the wiring to ES1, ES2 and ES3. Separately wire to ES1, ES2 and ES3
ERR lights up, ES blinks	Blinking ES SET Lit ERR 10 10 22 10 23 24 25 25 25 25 25 25 25 25 25	3) Failure of the circuit of Safety standstill detection outputs 4) Impermissible high ambient temperature	from the power line etc. of the inverter. 3) Replace with a new product. 4) Check the ambient temperature and spacing around G9SX.
ERR lights up, SET blinks	G9SX-SM032 24VDC PWR EDM CH1 CH2 ES SET Blinking Lit F88 10 22 48 2 138 DET TIME	Faults involved with Operation mode settings 1) Incorrect set values of Standstill determining time preset switches. 2) Failure of the circuit of mode settings	Check the set values of the two of Standstill determining time preset switches. Replace with a new product.
ERR lights up, all indicators except PWR blink	G9SX-SM032 24VDC PWR EBM CH1 CH2 ES SET Lit ER 10 22 24 8 2 2 2 8 8 2 2 2 8 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2	Supply voltage outside the rated value 1) Supply voltage outside the rated value	Check the supply voltage to G9SX units.

	Indicator	Expected causes	Check points and measures to take
ERR does not light up, SET blinks	G9SX-SM032 24VDC PWR BEDM CH1 CH2 ES SET Not lit PERR 11 19 18 10 20	Tuning Mode operation Operating Mode is in Tuning Mode of User Configuration.	Check if the Operation preset switch and the Mode preset switch on the back side are properly set. In the User Configuration Mode, safety standstill detection outputs will NOT be turned ON.

G9SX-NS202-□

Non-Contact Door Switch Controller G9SX-NS202-□ Troubleshooting

When the G9SX-NS202- \square detects a fault, the ERR indicator and/or other indicators light up or blink to inform the user about the fault. Check and take necessary measures referring to the following table, and then re-supply power to the G9SX-NS202- \square .

	Indicator	Expected causes	Check points and measures to take
	omron	Fault due to electromagnetic disturbance or of internal circuits.	
	G9SX-NS202 24VDC	Excessive electromagnetic disturbance	Check the disturbance level around the
		T) Excessive distribution distribution	G9SX and the related system.
	PWR FB	2) Failure of the internal circuit	2) Replace with a new product.
ERR blinks	AND NS		
	■ EI ERR ■ ◆ Blinking		
	No.		
	omron	Fault involved with Non-contact Door Switch	
	G9SX-NS202 24VDC	input 1) Error in the wiring of Non-contact Door	1) Check the wiring to D1 and D2.
	24400	Switch input	1) Check the willing to D1 and D2.
	PWR FB	2) Error in the wiring of Non-contact Door	2) Check the wiring to the Non-Contact Door
ERR lights up, NS blinks	■ AND NS ■ ■ Blinking	Switch inputs in series connections 3) Failure of the internal circuits of Non-contact	Switch. 3) Replace with a new product.
	■ EI ERR ■ ← Lit	Door Switch inputs	o) Replace with a new product.
		4) Failure of the Non-contact Door Switch	Replace with a new Non-Contact Door Switch.
	No.		GWILCH.
	omron	Fault involved with feedback/reset inputs	
	G9SX-NS202 24VDC	Error in the wiring of feedback/reset input. Failure of the aircraft of feedback/reset input.	 Check the wiring to T31, T32 and T33. Replace with a new product.
	24450	Failure of the circuit of feedback/reset input Fault in Expansion Unit	2) Replace with a new product.
	PWR FB ■ Blinking	Improper feedback signals from Expansion	Check the connecting cable of Expansion
ERR lights up, FB blinks	AND NS	Unit	Unit and the connection of the termination socket.
	■ EI ERR ■ ← Lit	Abnormal supply voltage to Expansion Unit	2) Check the supply voltage to Expansion Unit.
		, ,	Note: Make sure that all Expansion Units' PWR
	No.	Failure of the circuit of safety relay contact	indicators are lit. 3) Replace with a new product.
		outputs	o) Replace with a new product.
		Fault involved with instantaneous safety outputs, logical AND connection outputs, or	
	omron	auxiliary monitor output	
	G9SX-NS202 24VDC	1) Error in the wiring of instantaneous safety	1) Check the wiring to S14 and S24.
		outputs 2) Failure of the circuit of instantaneous safety	Replace with a new product.
555 W. L.	PWR FB	outputs	2) Replace with a new product.
ERR lights up, El blinks	AND NS	Error in the wiring of the logical AND connection output	3) Check the wiring to L1.
	Blinking → □ EI ERR □ ← Lit	Failure of the circuit of the logical AND	4) Replace with a new product.
		connection output	Topiaco mara non product.
	No.	Error in the wiring of the auxiliary monitor output	5) Check the wiring to X1.
		Impermissible high ambient temperature	6) Check the ambient temperature and spacing
		, , , , , , , , , , , , , , , , , , , ,	around the G9SX.
	OMRON	Fault involved with logical AND connection input	
	G9SX-NS202 24VDC	Error in the wiring of the logical AND	1) Check the wiring to T41 and T42.
		connection input	Note: Make sure that the wiring length for the T41, T42 terminal is 100 meters or less.
ERR lights up,	PWR FB		Note: Make sure that the logical AND
AND blinks	Blinking AND NS		connection signal is branched for 4 units or fewer.
	■ EI ERR ■ ← Lit	Incorrect setting for the logical AND	Confirm the set value of the logical AND
		connection input	connection preset switch.
	No.	Failure of the circuit of the logical AND connection input	3) Replace with a new product.
		connection input	

	Indicator	Expected causes	Check points and measures to take
ERR lights up, all indicators except PWR blink	OTIRON G9SX-NS202 24VDC PWR FB B Blinking AND NS B EI ERR Lit	Supply voltage outside the rated value 1) Supply voltage outside the rated value	Check the supply voltage to the Units.

G9SX-NSA222-T03-□

Non-Contact Door Switch Controller G9SX-NSA222-T03-□ Troubleshooting

When the G9SX-NSA222-T03-□ detects a fault, the ERR indicator and/or other indicators light up or blink to inform the user about the fault. Check and take necessary measures referring to the following table, and then re-supply power to the G9SX-NSA222-T03-□.

	Indicator	Expected causes	Check points and measures to take
ERR blinks	OMRON G9SX-NSA222-T03 24VDC PWR FB T1 T2 AND NS EI ED OFF-DELAY No.	Fault due to electromagnetic disturbance or of internal circuits. 1) Excessive electromagnetic disturbance 2) Failure of the internal circuit	Check the disturbance level around the G9SX and the related system. Replace with a new product.
ERR lights up, T1 blinks	OMRON G9SX-NSA222-T03 24VDC PWR FB AND NS BINKING T1 T2 AND NS BE ED OFF-DELAY NO.	Fault involved with safety input 1 1) Error in the wiring of safety input 1 2) Incorrect setting of cross fault detection input 3) Failure of the circuit of safety input 1	1) Check the wiring to T11 and T12. 2) Check the wiring to Y1. 3) Replace with a new product.
ERR lights up, T2 blinks	OMRON G9SX-NSA222-T03 24VDC PWR FB OT1 T2 AND NS EE ED OFF-DELAY No.	Fault involved with safety input 2 1) Error in the wiring of safety input 2 2) Incorrect setting of cross fault detection input 3) Failure of the circuit of safety input 2	1) Check the wiring to T21 and T22. 2) Check the wiring to Y1. 3) Replace with a new product.
ERR lights up, NS blinks	OMRON G9SX-NSA222-T03 24VDC PWR FB T1 T2 AND NS Blinking FI ED OFF-DELAY No.	Fault involved with Non-contact Door Switch input 1) Error in the wiring of Non-contact Door Switch input 2) Error in the wiring of Non-contact Door Switch inputs in series connections 3) Failure of the internal circuits of Non-contact Door Switch inputs 4) Failure of the Non-contact Door Switch	1) Check the wiring to D1 and D2. 2) Check the wiring to the Non-Contact Door Switch. 3) Replace with a new product. 4) Replace with a new Non-Contact Door Switch.
ERR lights up, FB blinks	OFF-DELAY OFF-DELAY OFRON G9SX-NSA222-T03 24VDC PWR FB Blinking Blinking Lit Lit	Fault involved with feedback/reset inputs 1) Error in the wiring of feedback/reset input. 2) Failure of the circuit of feedback/reset input Fault in Expansion Unit 1) Improper feedback signals from Expansion Unit 2) Abnormal supply voltage to Expansion Unit 3) Failure of the circuit of safety relay contact outputs	1) Check the wiring to T31, T32 and T33. 2) Replace with a new product. 1) Check the connecting cable of Expansion Unit and the connection of the termination socket. 2) Check the supply voltage to Expansion Unit. Note: Make sure that all Expansion Units' PWR indicators are lit. 3) Replace with a new product.

	Indicator	Expected causes	Check points and measures to take
ERR lights up, El blinks	OMRON G9SX-NSA222-T03 24VDC PPWR FB T1 T2 AND NS Blinking EI ED OFF-DELAY No.	Fault involved with instantaneous safety outputs, logical AND connection outputs, or auxiliary monitor output	
		Error in the wiring of instantaneous safety outputs	1) Check the wiring to S14 and S24.
		Failure of the circuit of instantaneous safety outputs	2) Replace with a new product.
		Error in the wiring of the logical AND connection output	3) Check the wiring to L1.
		Failure of the circuit of the logical AND connection output	4) Replace with a new product.
		5) Error in the wiring of the auxiliary monitor output	5) Check the wiring to X1.
		6) Impermissible high ambient temperature	6) Check the ambient temperature and spacing around the G9SX.
	OMRON G9SX-NSA222-T03	Fault involved with OFF-delayed safety outputs	
ERR lights up, ED blinks	24VDC	Error in the wiring of OFF-delayed safety relay contact outputs	1) Check the wiring to S44 and S54.
	T1 T2	2) Incorrect set values for OFF-delay time	Check the settings of the OFF-delay time setting switch.
	EI ED Blinking	Failure of the circuit of OFF-delayed safety relay contact outputs	3) Replace with a new product.
	OFF-DELAY	4) Impermissible high ambient temperature	Check the ambient temperature and spacing around the G9SX.
	OMRON	Fault involved with logical AND connection input	
ERR lights up, AND blinks	G9SX-NSA222-T03 24VDC PWR FB T1 T2 Blinking AND NS EI ED	Error in the wiring of the logical AND connection input	Check the wiring to T41 and T42. Note: Make sure that the wiring length for the T41, T42 terminal is 100 meters or less. Note: Make sure that the logical AND connection signal is branched for 4 units or fewer.
	07 08091,0,2 0.5 1.8 ERR	Incorrect setting for the logical AND connection input	Confirm the set value of the logical AND connection preset switch.
	"52 4 0 30" OFF-DELAY No.	Failure of the circuit of the logical AND connection input	3) Replace with a new product.
	OMPOD	Supply voltage outside the rated value	
ERR lights up, all indicators except PWR blink	OMRON G9SX-NSA222-T03 24VDC PWR FB OT1 T2 AND NS EI ED OFF-DELAY No.	Supply voltage outside the rated value	1) Check the supply voltage to the Units.

G9SX-NSA222-T03-□

Indicator		Expected causes	Check points and measures to take
· · · · · · · · · · · · · · · · · · ·	OMBOD	Mismatch between input 1 and input 2.	
ERR does not light up, T1 or T2 blinks	OMRON G9SX-NSA222-T03 24VDC PWR FB AND NS EI ED OFF-DELAY No. OFF-DELAY OFF-DELAY OFF-DELAY OR OR OR OR OR OR NO.	The input status between input 1 and input 2 is different, due to contact failure or a short circuit of safety input device(s) or a wiring fault.	Check the wiring from safety input devices to the G9SX. Or check the input sequence of safety input devices. After removing the fault, turn both safety inputs 1 and 2 to the OFF state.
	OMRON G9SX-NSA222-T03 24VDC PWR FB T1 T2 Blinking AND NS EI ED OFF-DELAY NO.		

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