

## OPTOFORM<sup>®</sup> 80 - Relay Diagnosis

The Optoform<sup>®</sup> 80 uses nine relays designated CR0, CR1, CR3, CR4, CR6, CR7, CR8, CR10, CR12, CRE1 & DL1. All have 12vdc coils. Their applications are as follows:

### Electrical Cabinet

<u>Desig.</u>	<u>Mfr.</u>	<u>Part No.</u>	<u>Function</u>
CR1	A-B	100-16CZQ10	AC for PWS2-4, & Spindle Drive
CRE1	GRAYHILL	70S2-04-C-12S	AC for Isolated Remote Receptacle
CR8	IDEC	RH2B-U-DC12V	AC for Spindle Drive
CR0	IDEC	RH2B-U-DC12V	Control System Power (KEY SW)
CR3	IDEC	RY4S-U-DC12V	Safety Logic (E-STOP SW)
CR4	IDEC	RH2B-U-DC12V	Fault and Control-Ready Logic
CR6	IDEC	RR3B-U-DC12V	Z Slide Linear Motor Drive
CR7	IDEC	RR3B-U-DC12V	X Slide Linear Motor Drive
CR12	IDEC	RY4S-U-DC12V	Encoder Fault Reset
DL1	A-B	700-HS22AZ12	Z&X Drive Off Delay

### Procedure

One of each type of relay is provided with the machine's spare parts kit. Before replacing a suspect relay, verify that the main disconnect switch is OFF and that the power cord is unplugged.

**WARNING** – Follow your employer's LOCK OUT-TAG OUT procedures.

Replace the relay and reconnect power. If relay replacement does not clear the problem, and the relay makes no audible click, check for the absence of control voltage at the relay coil. If the new relay clicks, but is still ineffective, check for the absence of proper voltage at the relay contacts. Refer to Schematic S08687 for further information.