

DIE PROTECTION INPUTS:
Connect as needed. Refer to installation manual on usage.
For mechanical sensors, 0V ISO has to be connected to protective earth.

Four separate options are available from supervisor menu:

Option 1 (default) provides 4 independent die protection inputs.

Option 2 allows one die input and an external INCH/SINGLE/CONTINUOUS mode switch.

Option 3 configures DIE1 & DIE2 inputs as external valve monitoring for R1 & R2. In this case, the inputs must use NC contacts (energized valve = open contacts)

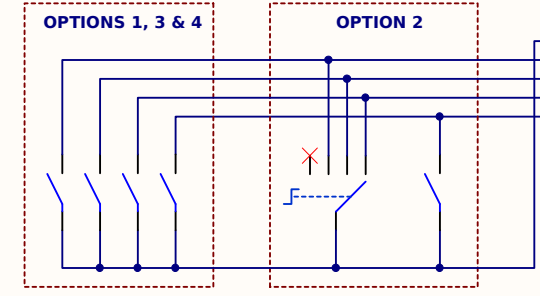
Option 4 configures DIE4 input for 'treadle' switch. Can be combined with options 2 or 3.

PLS OUTPUTS:
Connect as needed. Refer to installation manual on usage.

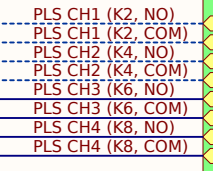
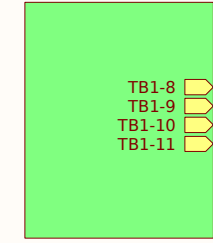
PLS channel 1 can be used as a slow-speed output if the RBPC is configured as a press brake controller.

When connected to ISB MERLIN 3000 for press brake mode of operation:

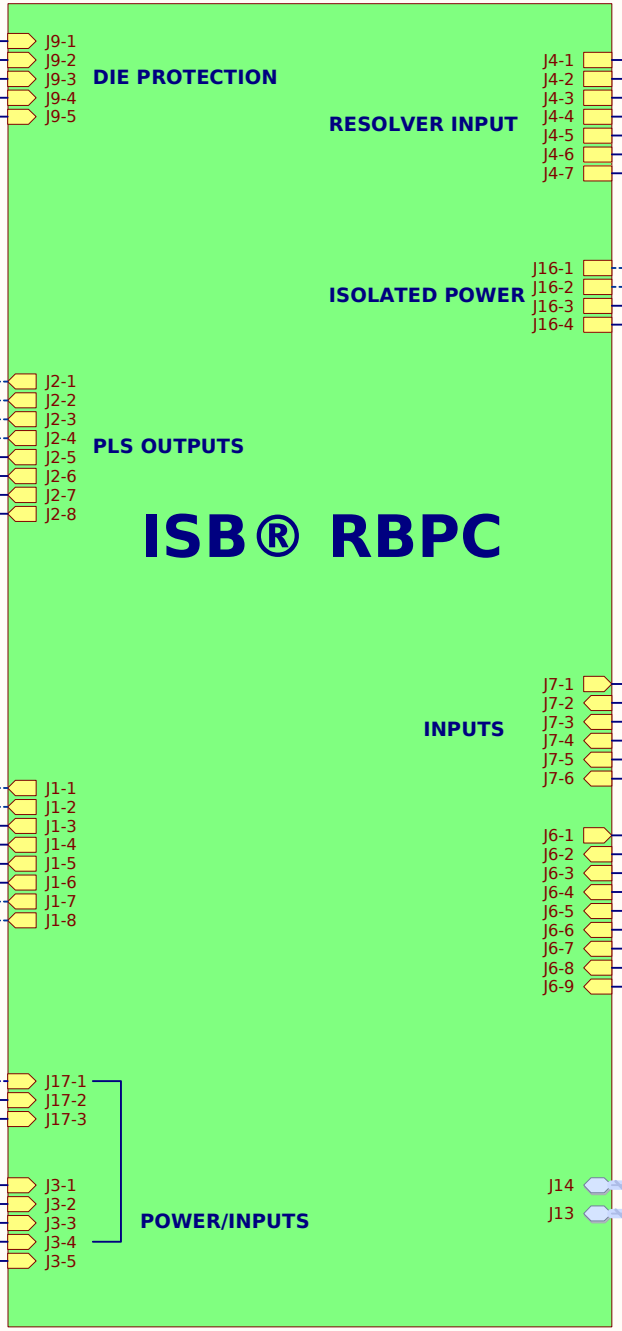
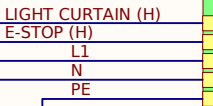
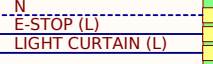
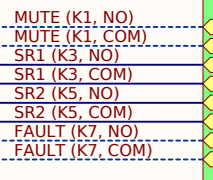
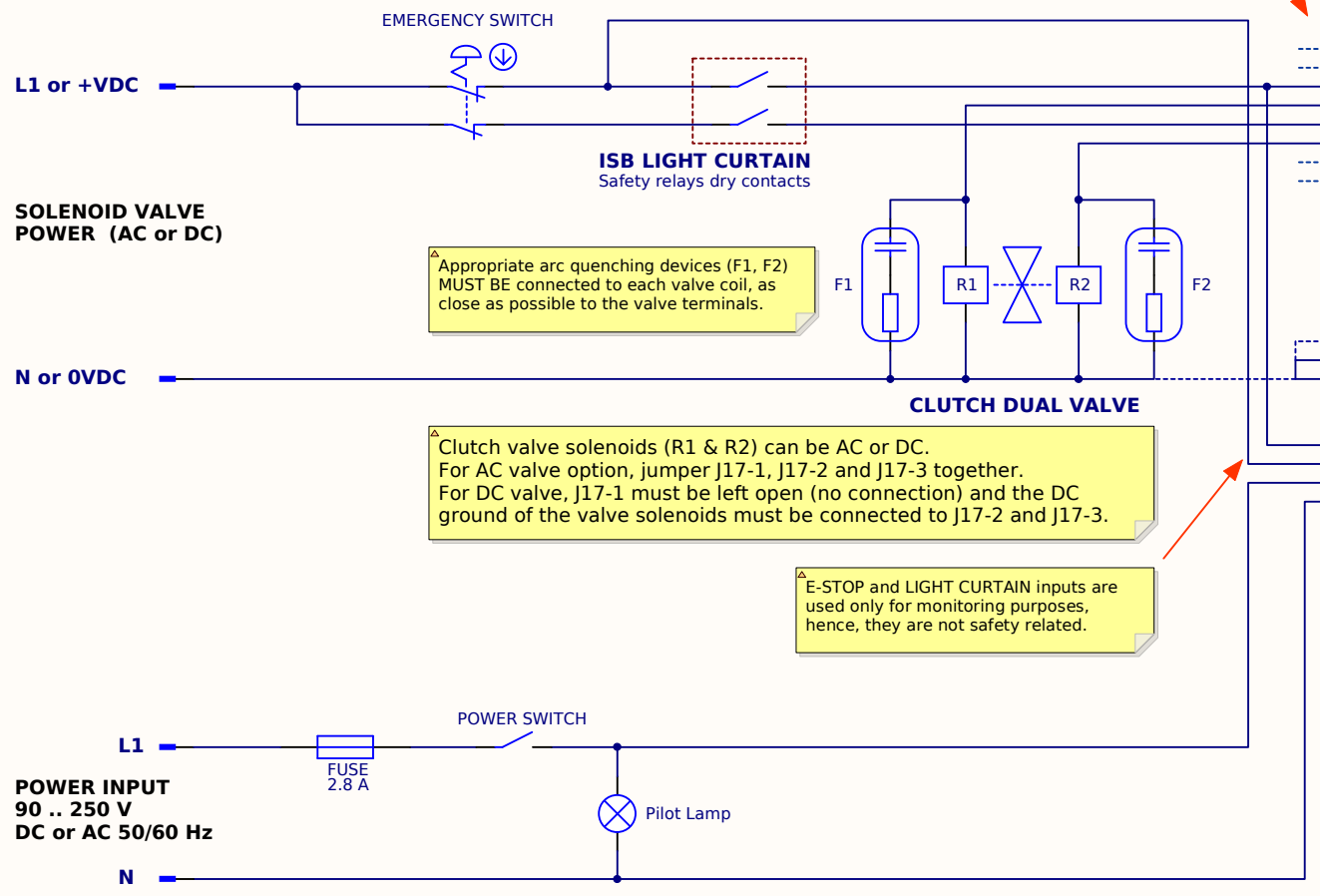
PLS channel 3 will generate automatic TOS signal for M3000, closed from 10 to 350 degrees.
PLS channel 4 will generate automatic MUTE/BOS signal for M3000, closed from stroke stop angle to 350 degrees channel 4.



ISB MERLIN 3000 (OPT)



K1 is a NC muting relay for external devices.
K7 is a NC fault relay for an external device (e.g. feeder, lube, etc.).

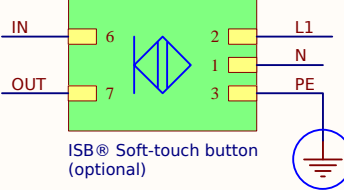


Twisted Pair Colors: New cable (Old cable)
1: S4/S2, Red/Black (Red/Green)
2: S3/S1, Blue/Black (Blue/Brown)
3: R2/R1, Green/Black (Yellow/Orange)

The "resolver check" proximity switch must be mechanically mounted and be directly actuated by the crankshaft of the machine at top dead center.

Optional connections AUX. TOP STOP and AUX. EMERGENCY STOP must be NC if not used.

ISB® soft-touch buttons may be used instead of standard RUN buttons (see wiring detail below).



IMPORTANT:
Connect all NC inputs, resolver and proximity switch before applying power.
Do not install 12 VDC wiring in the same conduits or raceways as the machine high-voltage wiring, including motor wiring.

GENERAL NOTES:
1) Fuse, AC ON/OFF switch, AC ON light and all other buttons not included.
2) Refer to P.C. Board wiring location drawing for terminal locations.
3) Schematic symbols compliant with IEC 60617

Title		
RBPC WIRING DIAGRAM		
Size	Number	Revision
Tabloid		2.03
Date:	2010-03-18	Sheet of
File:	E:\workspace\...\Copy of RBPC Wiring Diagram v2.03.schdoc	