

MAINS AND PROTECTIVE EARTH

22 October 2026 | Manufacturer terminal labels are checked; physical build NOT electrically verified.
Each row is an individual proposed path. Tick only after insulated, dead testing and inspection.

	Wire ID	FROM terminal	TO terminal	Purpose / inspection note
[]	AC-IN-L	J1 switched/fused L	X1 Live bus	Incoming feed Proposed; J1 rear terminal mapping unverified
[]	AC-IN-N	J1 switched Neutral	X1 Neutral bus	Incoming return Proposed; J1 pole mapping unverified
[]	AC-PS-L	X1 Live bus	PS1 mains L (C1)*	1 of 3 L take-offs Physical PSU designation to be read on label
[]	AC-S1-L	X1 Live bus	S1 mains NO contact input*	2 of 3 L take-offs Exact selector contact markings to check
[]	AC-S2-L	X1 Live bus	S2 mains NO contact input*	3 of 3 L take-offs Exact selector contact markings to check
[]	AC-PS-N	X1 Neutral bus	PS1 mains N (C2)*	1 of 3 N take-offs Physical PSU designation to be read on label
[]	AC-E1-N	X1 Neutral bus	E1 Omron terminal 12 (N)*	2 of 3 N take-offs Confirm E1 fitted variant and legend
[]	AC-E2-N	X1 Neutral bus	E2 Omron terminal 12 (N)*	3 of 3 N take-offs Confirm E2 fitted variant and legend
[]	AC-E1-L	S1 mains NO contact output*	E1 Omron terminal 11 (L)*	Additional switched Live wire This is NOT another X1 Live take-off
[]	AC-E2-L	S2 mains NO contact output*	E2 Omron terminal 11 (L)*	Additional switched Live wire This is NOT another X1 Live take-off
[]	AC-PE-1	J1 PE	PE distribution	Protective earthing Separate from N and 24 V 0 V; safety-critical
[]	AC-PE-2	PE distribution	PS1 FG/PE, enclosure, door and required bonds	Multiple PE conductors Use individual labelled, tested protective bonds; verify terminals

As-fitted cable/ferrule labels _____ Installed by _____ Checked by _____

CHANNEL 1 CONTROL

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	Wire ID	FROM terminal	TO terminal	Purpose / inspection note
[]	C1-DC-01	X2 shared +24 V	S1 24 V selector B input*	Permanent +24 V in Contact terminal stamps unknown
[]	C1-DC-02	S1 24 V selector B output*	X3 channel +24 V rail	Gated +24 V Not the same as EN1 relay-enabled net
[]	C1-P1	X3 gated +24 V	K1 Finder 13.61 A1	Switched +24 V destination 13.61 L/+ in original D12 was NOT a device terminal
[]	C1-P2	X3 gated +24 V	K1 Finder 13.61 11	Switched +24 V destination Contact common 11
[]	C1-P3	X3 gated +24 V	SB1 EAO momentary COM*	Switched +24 V destination User describes a central contact pin; physical stamp not yet confirmed
[]	C1-P4	SB1 COM / same verified switched +24 V junction	SSR1 Crydom +3/A1	Crydom control positive USER-REPORTED shared positive at button contact; verify both channels
[]	C1-P5	X3 gated +24 V / Crydom +3 junction	HL1 ACTIVE indicator +	ACTIVE positive INTENDED connection; installation not confirmed
[]	C1-N1	X3 0 V	K1 Finder 13.61 A2	Common control 0 V 13.61 N/- in D12 was NOT a device terminal
[]	C1-N2	X3 0 V	K3 Finder 62.31 coil A2*	Common 0 V Socket and suppression mapping unverified
[]	C1-N3	X3 0 V	SB1 EAO ENABLE indicator LED-	Common 0 V Not the ACTIVE indicator negative
[]	C1-N4	X3 0 V	W1 Weidm?ller output 14	Common 0 V Output 14 is the low/negative side per manufacturer drawing
[]	C1-E1	SB1 momentary NO*	K1 Finder 13.61 terminal 3	Pulse command Actual EAO stamp to check
[]	C1-E2	K1 Finder 13.61 output 14	K3 Finder 62.31 coil A1*	Enabled net EN1 Finder 13.61 NO output; socket terminal mapping to verify
[]	C1-E3	K1 Finder 13.61 output 14	SB1 ENABLE indicator LED+	Enabled net EN1 Three-way logical net with K3 A1; junction method unverified
[]	C1-S1	SSR1 Crydom -4/A2	W1 Weidm?ller output 13	SSR switched return USER-REPORTED; verify actual W module identification
[]	C1-S2	HL1 ACTIVE indicator -	W1 Weidm?ller output 13 / SSR1 -4 junction	ACTIVE switched return USER-REPORTED; confirm both channels and lamp identity
[]	C1-O1	E1 Omron control-output 1(+) / 2(-)*	W1 input A1(+) / A2(-)	12 V command input Controller hardware-dependent outputs must be verified

As-fitted cable/ferrule labels _____ Installed by _____ Checked by _____

CHANNEL 2 CONTROL

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	Wire ID	FROM terminal	TO terminal	Purpose / inspection note
[]	C2-DC-01	X2 shared +24 V	S2 24 V selector B input*	Permanent +24 V in Contact terminal stamps unknown
[]	C2-DC-02	S2 24 V selector B output*	X4 channel +24 V rail	Gated +24 V Not the same as EN2 relay-enabled net
[]	C2-P1	X4 gated +24 V	K2 Finder 13.61 A1	Switched +24 V destination 13.61 L/+ in original D12 was NOT a device terminal
[]	C2-P2	X4 gated +24 V	K2 Finder 13.61 11	Switched +24 V destination Contact common 11
[]	C2-P3	X4 gated +24 V	SB2 EAO momentary COM*	Switched +24 V destination User describes a central contact pin; physical stamp not yet confirmed
[]	C2-P4	SB2 COM / same verified switched +24 V junction	SSR2 Crydom +3/A1	Crydom control positive USER-REPORTED shared positive at button contact; verify both channels
[]	C2-P5	X4 gated +24 V / Crydom +3 junction	HL2 ACTIVE indicator +	ACTIVE positive INTENDED connection; installation not confirmed
[]	C2-N1	X4 0 V	K2 Finder 13.61 A2	Common control 0 V 13.61 N/- in D12 was NOT a device terminal
[]	C2-N2	X4 0 V	K4 Finder 62.31 coil A2*	Common 0 V Socket and suppression mapping unverified
[]	C2-N3	X4 0 V	SB2 EAO ENABLE indicator LED-	Common 0 V Not the ACTIVE indicator negative
[]	C2-N4	X4 0 V	W2 Weidm?ller output 14	Common 0 V Output 14 is the low/negative side per manufacturer drawing
[]	C2-E1	SB2 momentary NO*	K2 Finder 13.61 terminal 3	Pulse command Actual EAO stamp to check
[]	C2-E2	K2 Finder 13.61 output 14	K4 Finder 62.31 coil A1*	Enabled net EN2 Finder 13.61 NO output; socket terminal mapping to verify
[]	C2-E3	K2 Finder 13.61 output 14	SB2 ENABLE indicator LED+	Enabled net EN2 Three-way logical net with K4 A1; junction method unverified
[]	C2-S1	SSR2 Crydom -4/A2	W2 Weidm?ller output 13	SSR switched return USER-REPORTED; verify actual W module identification
[]	C2-S2	HL2 ACTIVE indicator -	W2 Weidm?ller output 13 / SSR2 -4 junction	ACTIVE switched return USER-REPORTED; confirm both channels and lamp identity
[]	C2-O1	E2 Omron control-output 1(+) / 2(-)*	W2 input A1(+) / A2(-)	12 V command input Controller hardware-dependent outputs must be verified

As-fitted cable/ferrule labels _____ Installed by _____ Checked by _____

RECONCILIATION NOTES / RELEASE HOLDS

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MAINS DISTRIBUTION - ENTIRE TWO-CHANNEL CABINET

X1 Live: 3 outgoing take-offs -> Mean Well PS1, S1 selector input, S2 selector input.
X1 Neutral: 3 outgoing take-offs -> PS1, Omron E1, Omron E2.
ADDITIONAL wires: incoming J1 L/N, each selector NO to Omron Live, and protective earth bonds.
Three Live and three Neutral outgoing positions are NOT the total wire count.

24 V PER CHANNEL - PHYSICAL CAPACITY REPORTED, NOT INSPECTED:

Three gated +24 V distribution positions and three common 0 V positions per channel.
Crydom +3/A1 shares switched +24 V with the EAO ENABLE centre contact (USER-REPORTED).
Crydom -4/A2 and ACTIVE lamp negative share Weidmuller output 13 (USER-REPORTED).
Weidmuller output 14 returns to control 0 V; 13 is collector (+), 14 emitter (-).
ACTIVE indicator positive shares gated +24 V with Crydom +3; install status unconfirmed.
EAO ENABLE LED+ is instead on the relay ENABLED net EN1/EN2 from Finder 13.61 contact 14.
EN1/EN2 also supply the corresponding Finder 62.31 power-relay coil A1.

FINDER 13.61 manufacturer terminals for specified 13.61.0.024.0000:

Power supply A1 (+24 V), A2 (0 V); impulse input 3; ON and OFF commands.
Changeover: 11 common, 14 NO, 12 NC. Legacy L/+ and N/- are EXTERNAL rails.

MANDATORY BEFORE POWER-UP:

Verify installed exact device variants, EAO COM pins, terminal capacities and all branches.
Check inlet/fuse/selector/protective earth, rated conductors, branch protection and fault paths.
Test SSR interface, indicator polarity, and prevent automatic heater enable after power restoration.
Obtain competent independent inspection, as-built revision and safe commissioning approval.
Sources: Finder 13.61 instructions; Weidmuller 8950770000 datasheet; Crydom DR22 datasheet.
Original D12 PDF/PPTX remain historical and have not been edited. Read revised online register.