

SR35-AUX-IO INSTALLATION GUIDE



SR35-AUX-IO EXPANSION MODULE



INTRODUCTION

The SR35-AUX-IO expansion module can be used to provide additional I/O to the SR35 family of soft starters. The module is self-powered, so there is no need for an additional supply to power it.

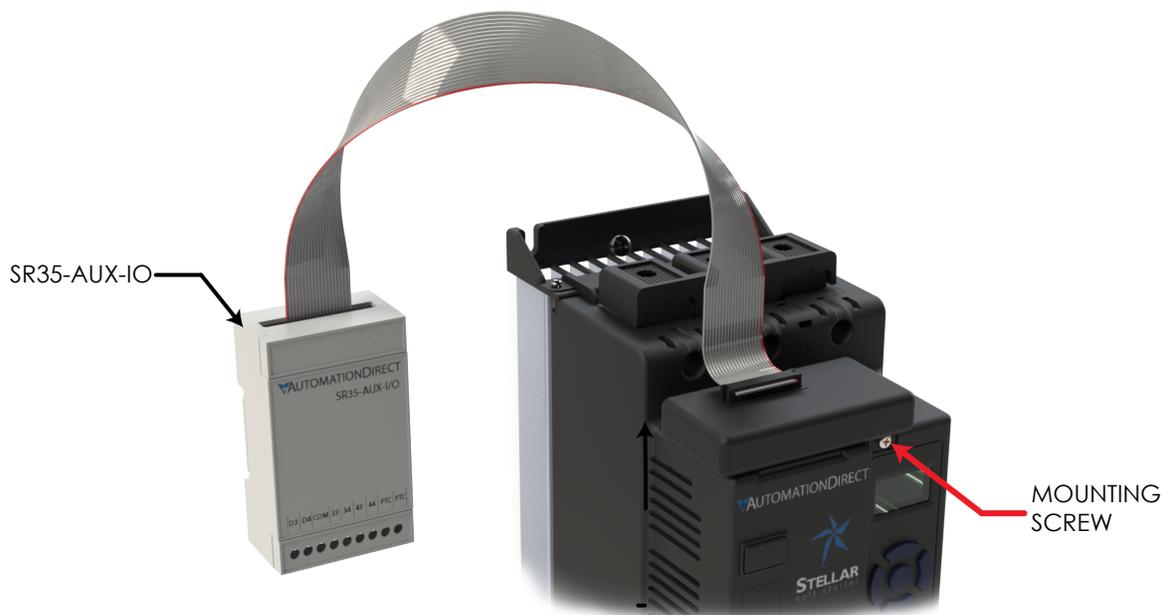
The expansion module provides the following additional I/O:

- 2 x Digital Inputs.
- 2 x Digital Outputs.
- 1 x PTC Thermistor Input.

INSTALLATION

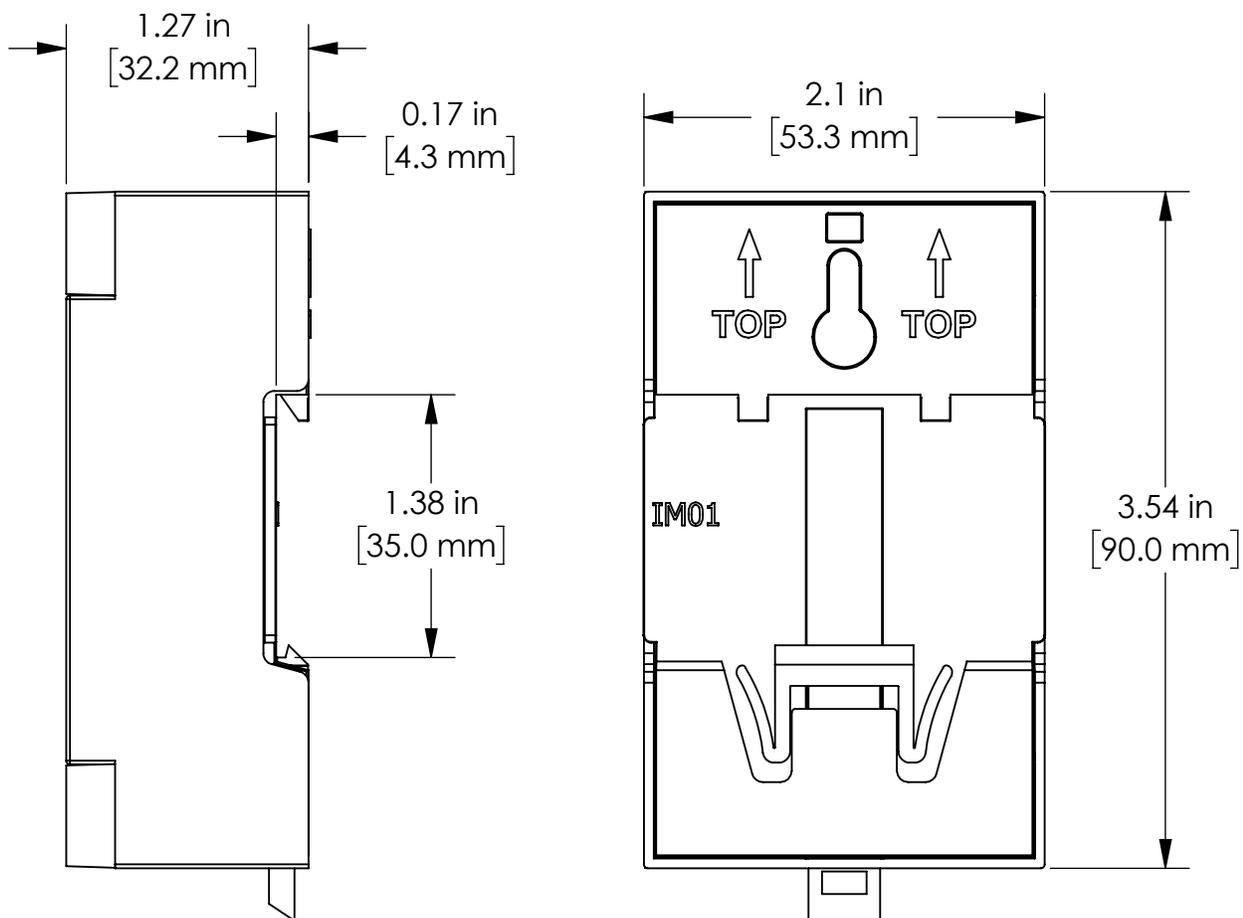
The SR35-AUX-IO expansion module is DIN rail mounted for easy installation.

The supplied ribbon cable connects the expansion module to the adapter module. The adapter module then connects to the SR35 soft starter edge connector as shown below.



NOTE: Fit screw and nylon washer (supplied). DO NOT over-tighten (Max 40 cN.m)

SR35-AUX-IO DIMENSIONS:

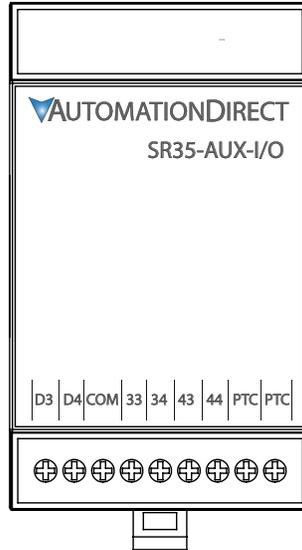


Weight: 0.14 kg (0.31 lb)

General Specification			
Rated Insulation Voltage	U_i	230VAC r.m.s.	
Rated Impulse Withstand Voltage	U_{imp}	4 kV	
IP Code	-	IP20	
Overvoltage Category/Pollution Degree	-	III/3	
Control Circuit	Programmable Opto-Isolated Inputs	D3, D4	Must be supplied by class 2, limited voltage current, or
	Common Input, Marking	COM	
	Kind Of Current, Rated Frequency	'DC' or 'AC, 50 – 60Hz ± 5Hz'	
	Rated Voltage U_c	'24VDC' or '110V – 230VAC'	
Auxiliary Circuit	Form A – Single Gap Make -Contact (Normally Open)	'33, 44' and '43,44'	Protected with a UL248 listed fuse rated Max 4A
	Utilization Category, Voltage Rating, Current Rating	Resistive load, 250Vac, 2A 250Vac, 0.75A (AC-15 / C300)	
PTC Circuit	Trip Level	3.6k Ω	-
	Reset Level	1.6k Ω	-

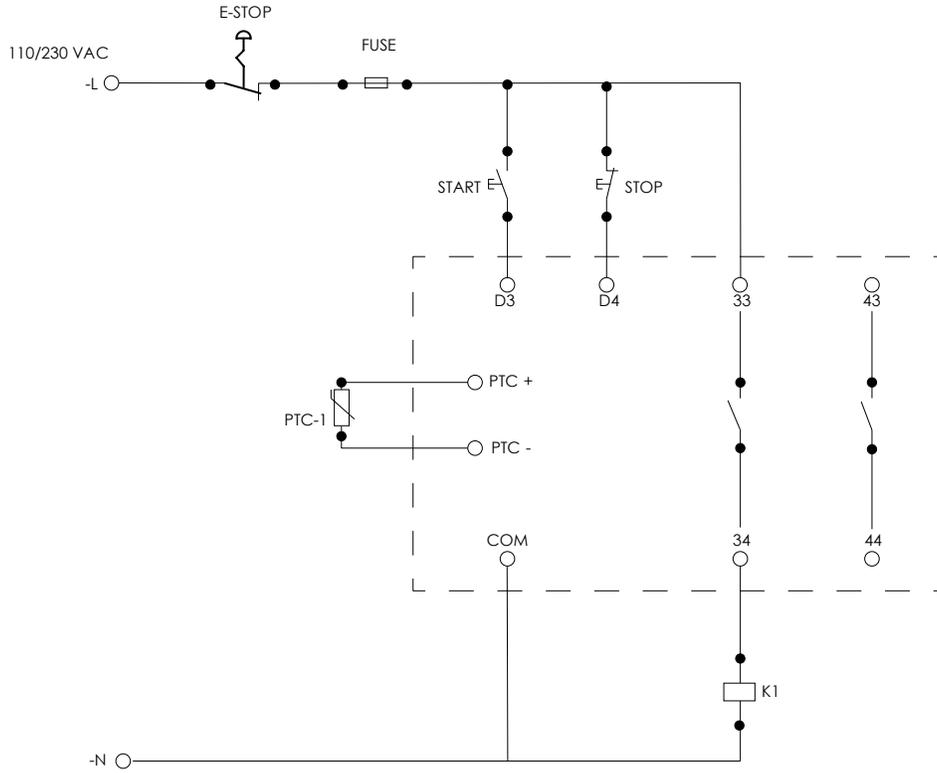
Wire Sizes and Torques				
Terminal	Wire/Busbar Size		Torque	
	Metric	Imperial	Nm	lb-in
Control Terminals	0.2–1.5mm ²	24-16AWG	0.5	4.5

SR35-AUX-IO CONNECTIONS

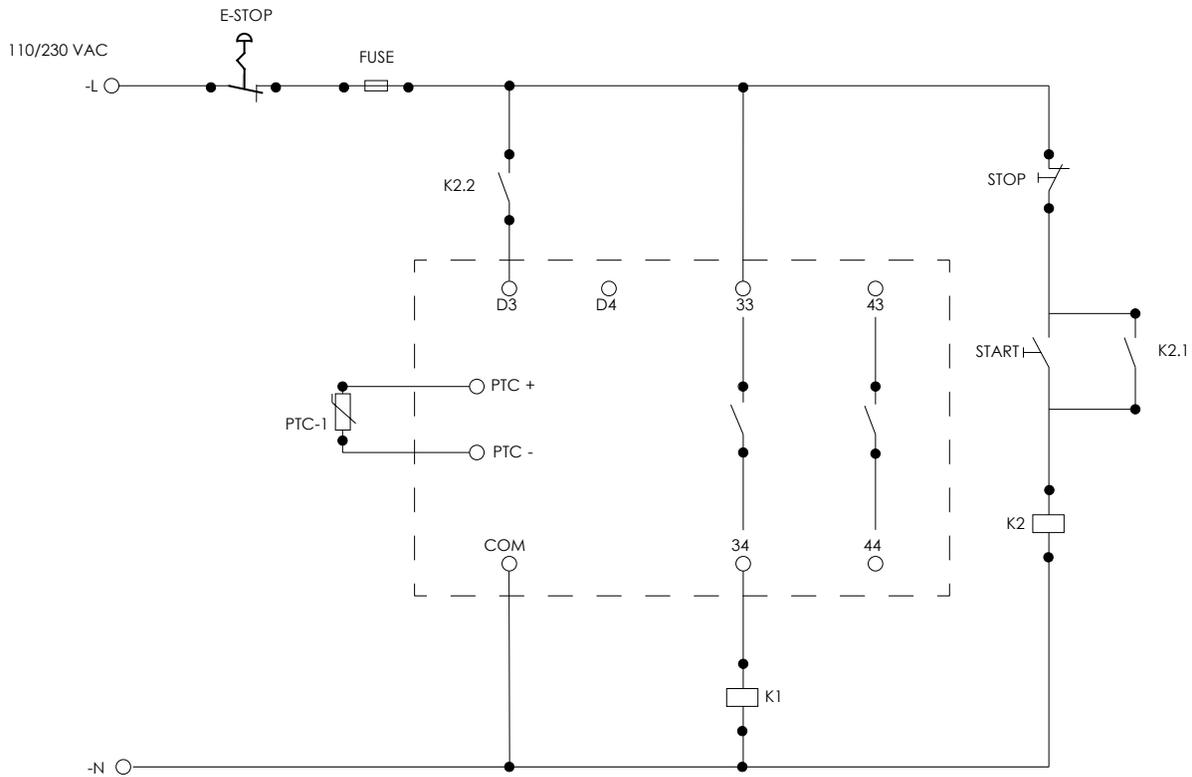


Terminal	Description	Function Selectable	Parameter options (When used with SR35)
D3	Digital Input A	Yes (Via Cntrl Funct)	0- Three Wire (D3 Start / D4 Stop) 1- Two Wire (D3 Start, Stop and Reset / D4 No function) 2- DI-Prog Reset (D3 Start, Stop) 3- DI-Prog Hold (D3 Start, Stop and Reset) 4- DI-Prog Enable (D3 Start, Stop and Reset) 5- DI-Prog Fire (D3 Start, Stop and Reset)
D4	Digital Input B		
COM	Digital Inputs Common	No	-
33/34	Digital Output A	Yes	0- End of Start (At Speed) 1- Fault 2- Run 3- Pending 4- Exceeded 5- Breaker 6- Ph/SCR DEFAULT - Run
43/44	Digital Output B	Yes	0- End of Start 1- Fault 2- Run 3- Pending (Auto Reset) 4- Exceeded (Auto Reset) 5- Breaker 6- Ph/SCR DEFAULT - End of Start
*PTC +	PTC Thermistor +	Yes	0- ON (The Unit will trip if the motor thermistor exceeds its response temperature or the PTC input is open circuit) 1- OFF (The Unit will continue to operate regardless of the PTC value) DEFAULT - OFF
*PTC -	PTC Thermistor -		
<p><i>*PTC: A single PTC motor thermistor or set of PTC motor thermistors can be connected to the PTC terminals.</i></p> <ul style="list-style-type: none"> • Trip level = 3.6 kΩ • Reset Level = 1.6 kΩ 			

THREE WIRE CONTROL USING SR35-AUX-IO:



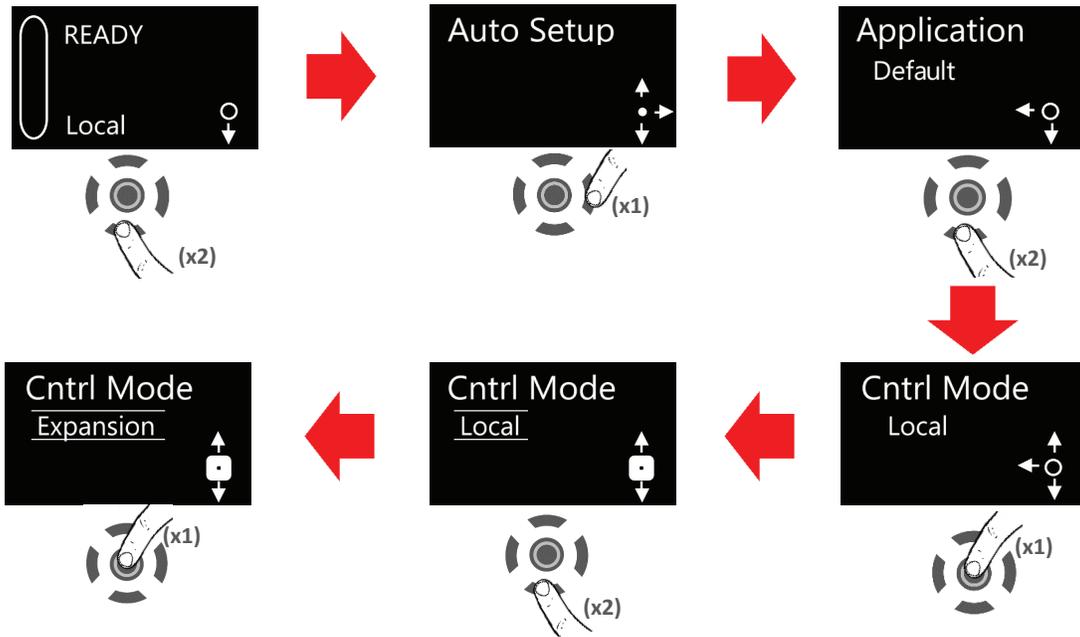
TWO WIRE CONTROL USING SR35-AUX-IO:



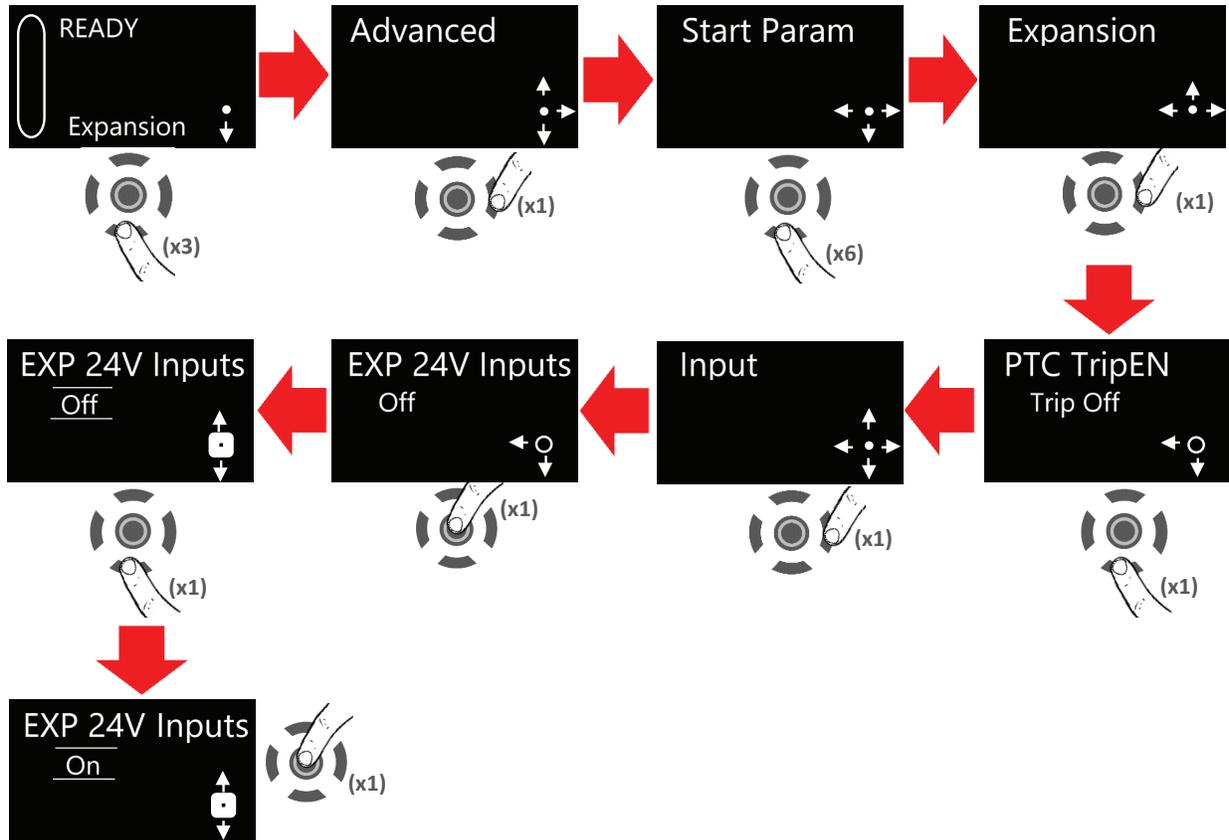
PROGRAMMING (FOR USE WITH SR35 MODELS)

DIGITAL INPUT PROGRAMMING

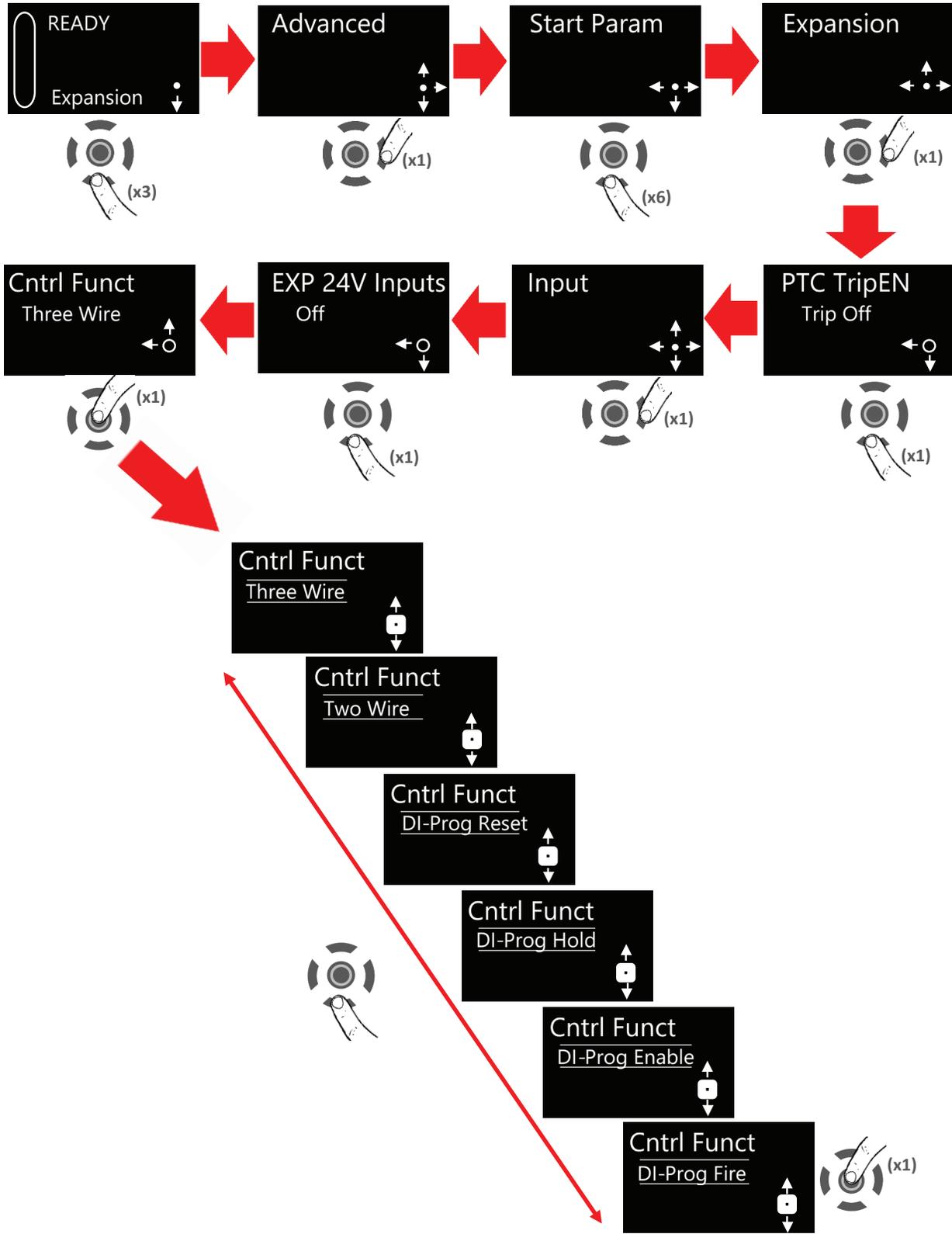
SETTING THE CONTROL MODE TO "EXPANSION":



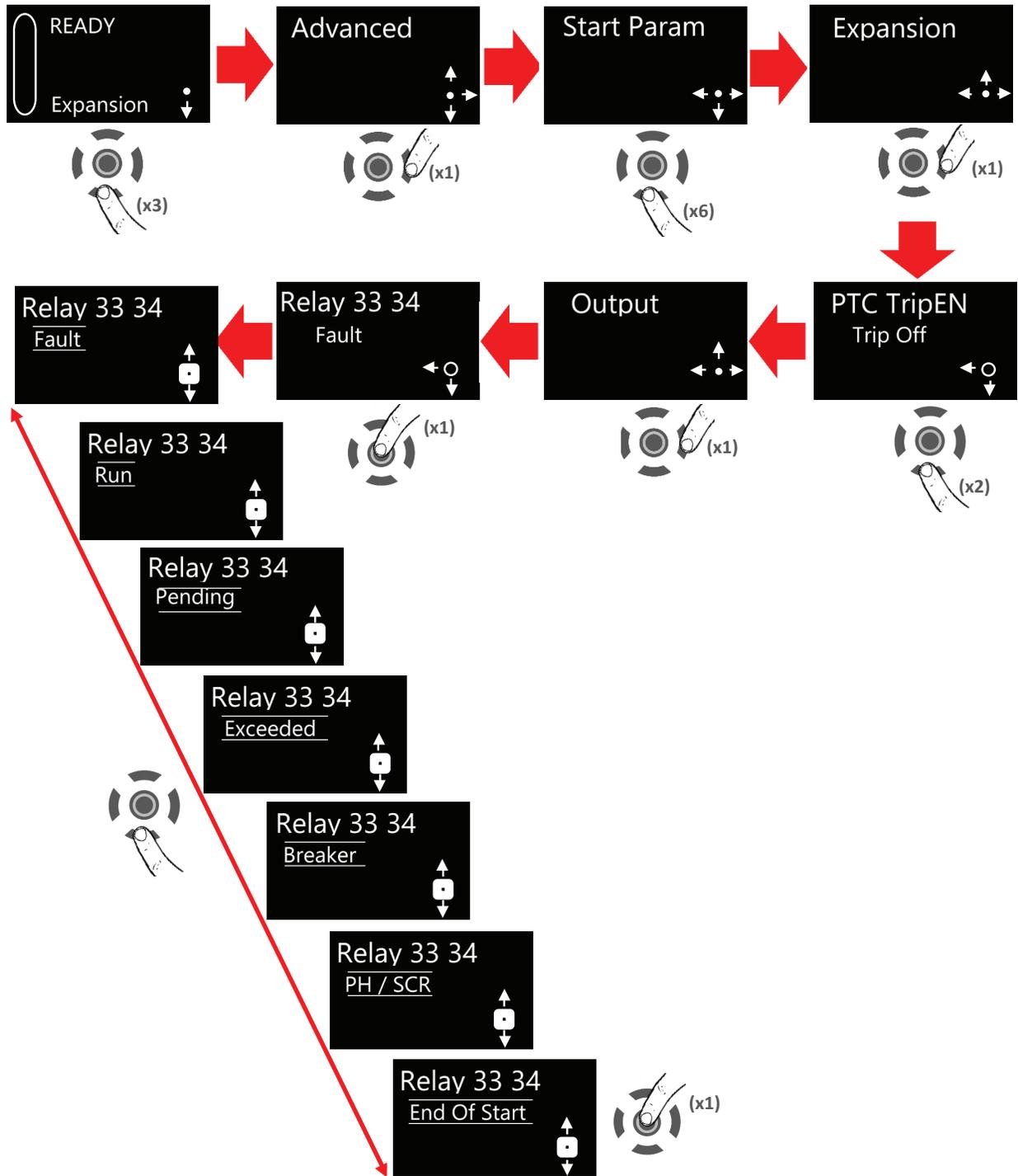
SETTING THE CONTROL INPUTS TO 24VDC (OFF =240V / ON = 24VDC):



SETTING THE CONTROL INPUT FUNCTION



SETTING THE DIGITAL OUTPUT FUNCTION



ACTIVATE THE PTC THERMISTOR TRIP:

