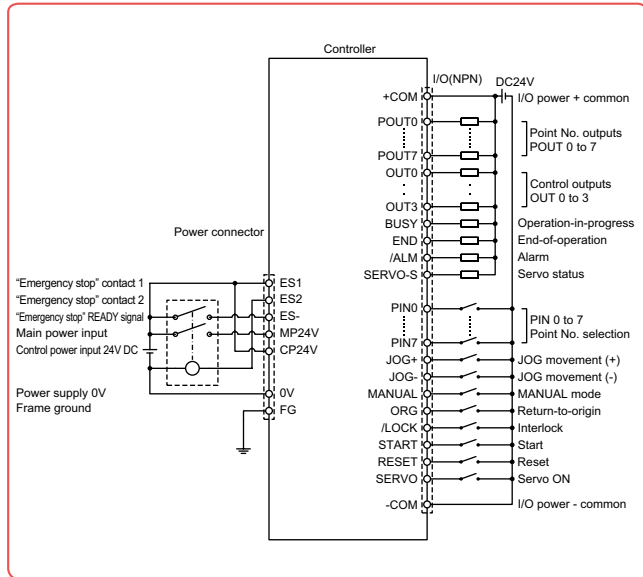


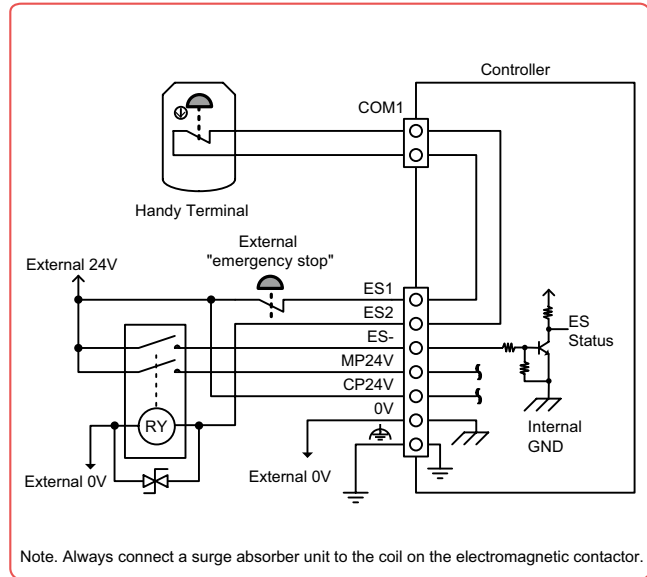
NPN type input / output wiring diagram

TS-S2/TS-SH



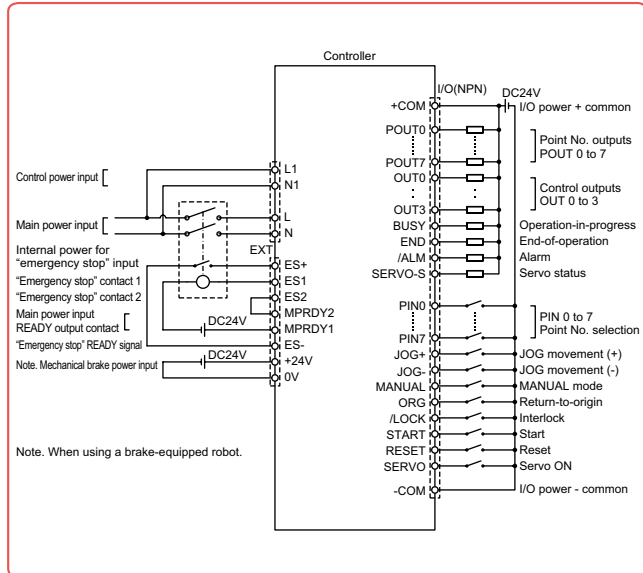
Emergency stop circuit example

TS-S2/TS-SH (power connector and host unit connection example)

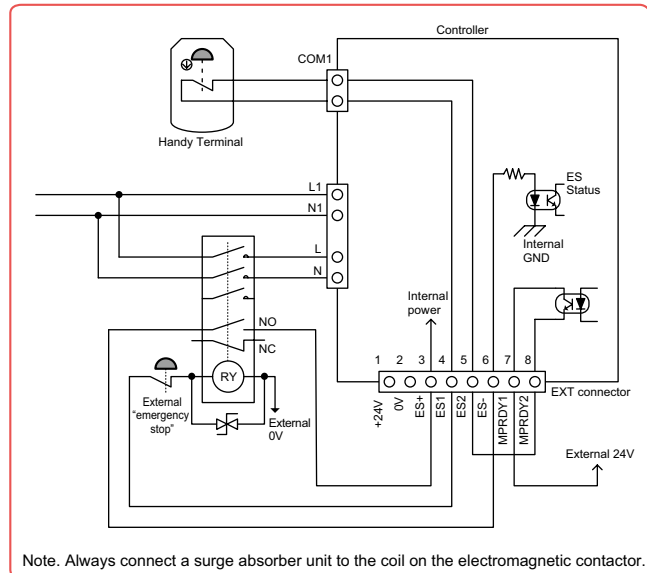


Note. Always connect a surge absorber unit to the coil on the electromagnetic contactor.

TS-X

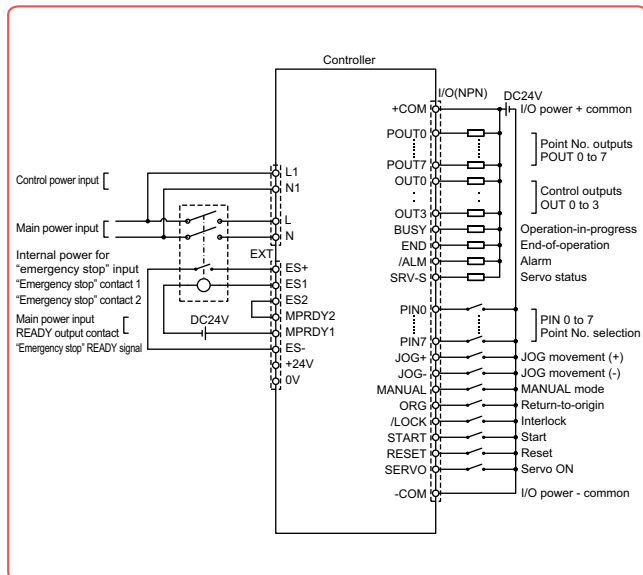


TS-X/TS-P (EXT connector and host unit connection example)



Note. Always connect a surge absorber unit to the coil on the electromagnetic contactor.

TS-P



Installing an external safety circuit will satisfy safety category class 4 standards. See P.748 for more information.

I/O Specifications

Item	Description
NPN	Input 16 points, 24VDC +/-10%, 5.1mA/point, positive common Output 16 points, 24VDC +/-10%, 50mA/point, sink type
PNP	Input 16 points, 24VDC +/-10%, 5.5mA/point, minus common Output 16 points, 24VDC +/-10%, 50mA/point, source type
CC-Link	CC-Link Ver.1.10 compatible, Remote station device (1 node)
DeviceNet™	DeviceNet™ Slave 1 node
EtherNet/IP™	EtherNet/IP™ adapter (2 ports)
PROFINET	PROFINET Slave 1 node

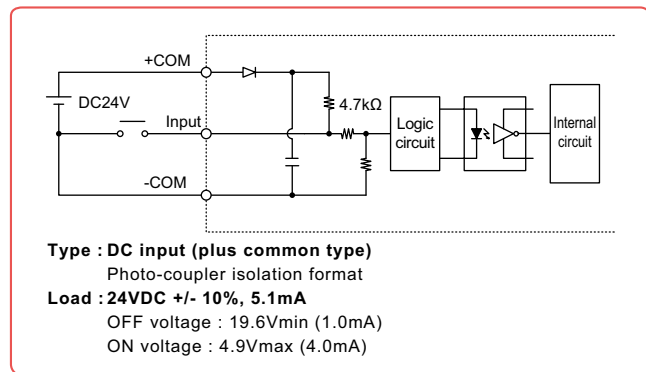
Articulated robots
YA
Linear conveyor modules
LCM
Single-axis robots
CX
Motor-less single axis actuator
Robonity
Compact single-axis robots
TRANSERO
Single-axis robots
FLIP-X
Linear motor single-axis robots
PHASER
Cartesian robots
XY-X
SCARA robots
YK-X
Pick & place robots
YP-X
CLEAN CONTROLLER
INFORMATION
Robot positioner
Pulse string driver
Robot controller
RCXVY2+ Electric gripper
Option

I/O signals (NPN / PNP)

No.	Signal Name	Description	No.	Signal Name	Description	
A1	+COM	I/O power input, positive common (24VDC +/-10%)	B1	POUT0	Point No. outputs	
A2			B2	POUT1		
A3	NC	No connection	B3	POUT2		
A4			B4	POUT3		
A5	PIN0	Point No. select	B5	POUT4		
A6	PIN1		B6	POUT5		
A7	PIN2		B7	POUT6		
A8	PIN3		B8	POUT7		
A9	PIN4		B9	OUT0		
A10	PIN5		B10	OUT1		
A11	PIN6		B11	OUT2		
A12	PIN7		B12	OUT3		
A13	JOG+		JOG movement (+ direction)	B13	BUSY	Operation-in-progress
A14	JOG-		JOG movement (- direction)	B14	END	Operation-end
A15	MANUAL	MANUAL mode	B15	/ALM	Alarm	
A16	ORG	Return-to-origin	B16	SRV-S	Servo status	
A17	/LOCK	Interlock	B17	NC	No connection	
A18	START	Start	B18	NC		
A19	RESET	Reset	B19	-COM	I/O power input, negative common (0V)	
A20	SERVO	Servo ON	B20			

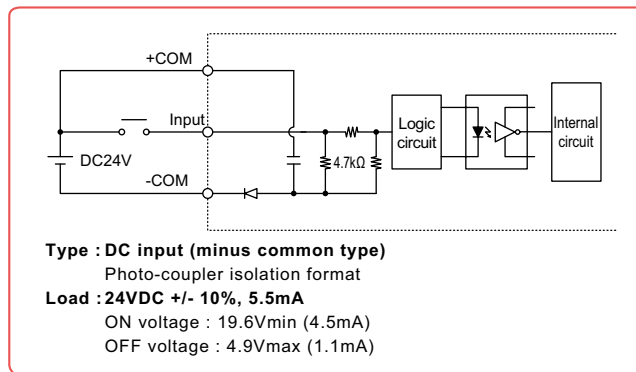
NPN type I/O circuit details

Input circuit

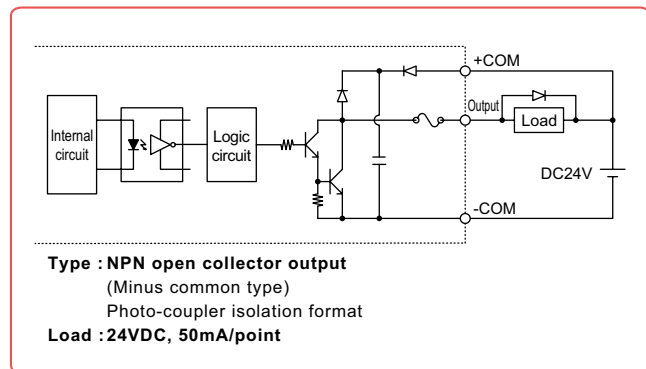


PNP type I/O circuit details

Input circuit



Output circuit



Output circuit

