



IL PROGETTO DI E-LEARNING DI MITSUBISHI ELECTRIC
PER LA FORMAZIONE TECNICA E PROFESSIONALE NELLE SCUOLE

Modulo specialistico di:

Automazione Industriale – Percorso PLC

Attività di SMARTWORKING: dalla teoria alla pratica

Allegato 1 - Studente – Specifiche tecniche del progetto



**Automating
the World**

Vimercate 13/05/2024

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1. Descrizione hardware PLC

Per questa applicazione è richiesto un PLC con:

- alimentazione 220V AC;
- 16 ingressi tipo SOURCE
- 16 uscite a relè

Per scegliere il PLC consulta:

- **Allegato 2 - FX5U User's manual Hardware JY997D55301-F**, pagina 38

2. Schema di collegamento

Nello schema elettrico di collegamento disegnare la morsettiera del PLC, l'alimentazione fornita al PLC, comprensiva dell'eventuale alimentazione ausiliaria a 24V, ed il collegamento di tutti gli ingressi/uscite.

Possono esserti di aiuto:

- lezione «**Corso base PLC compatti**» del corso, capitoli 3.6, 3.7, 3.8.
- **Allegato 2 - FX5U User's manual Hardware JY997D55301-F**, pagine 25, 26, 35

3. Elenco e descrizione ingressi/uscite del PLC

Ingressi PLC

- X0 Comando Start scala mobile (da pulsante)
- X1 Fungo di emergenza NC (ON = emergenza attiva)
- X2 Fotocellula presenza persone (si attiva quando non sono presenti persone sulla scala mobile)

Uscite del PLC

- Y0 Comando motore scala mobile

4. Descrizione del ciclo PLC

Abilitazione Y0 (Comando motore scala mobile)

L'uscita Y0 diventa ON quando:

1. il fungo d'emergenza non è premuto ($X1 = 0$);
2. viene fornito il comando di start ($X0 = 1$). Considerare che l'ingresso X0 è un **impulso** di 500ms;

Disabilitazione Y1 (Stop motore scala mobile)

L'uscita Y0 diventa OFF:

1. se viene premuto il fungo d'emergenza
2. trascorsi 200ms dall'attivazione della fotocellula presenza persone ($X2 = 1$)

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