

## General Specifications

### General Specifications

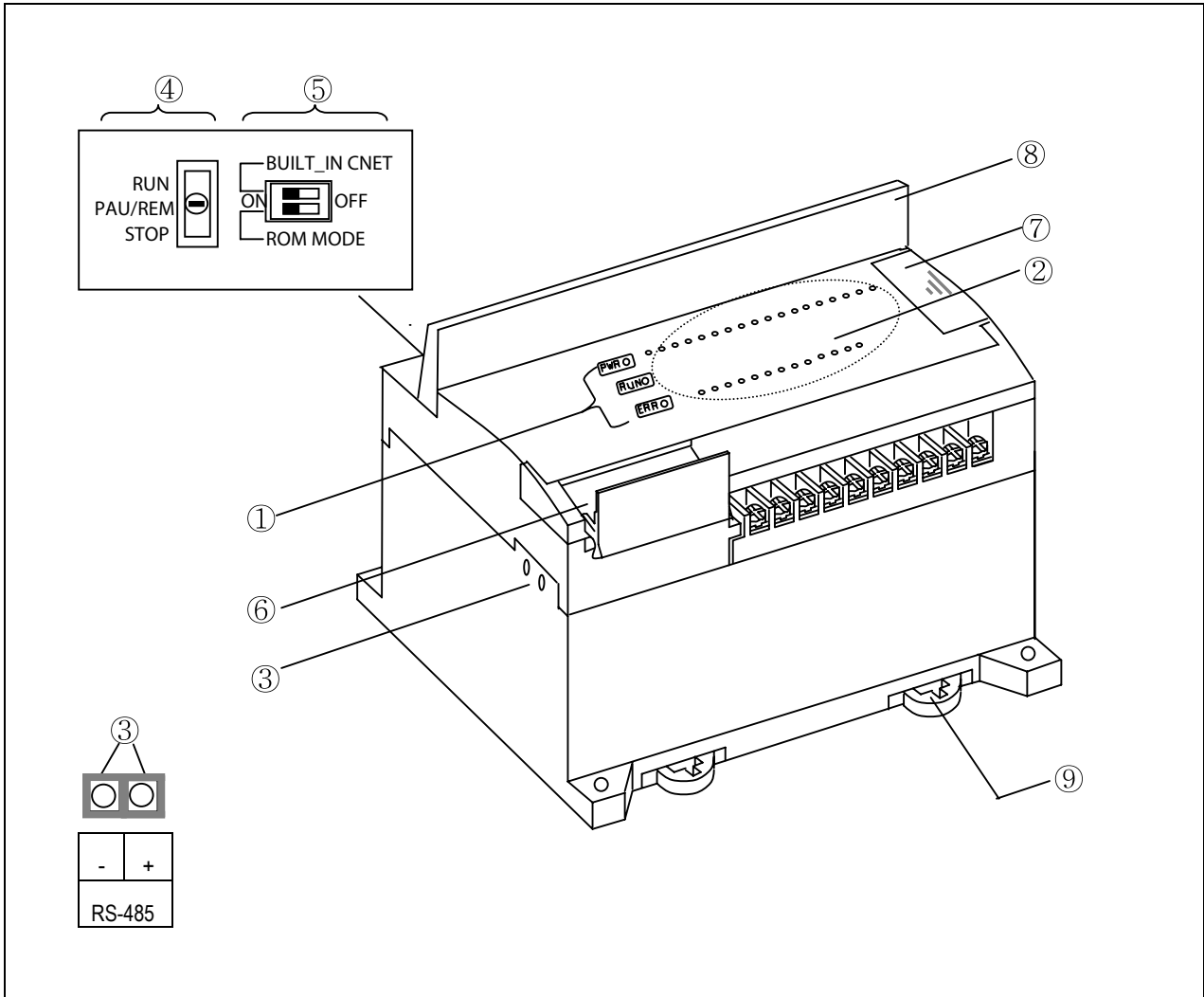
The following table shows the general specifications of the DR.N 1005-8105

No.	Item	Specifications				References
1	Operating ambient Temperature	0 ~ 55 °C				
2	Storage ambient Temperature	-25 ~ +70 °C				
3	Operating ambient Humidity	5 ~ 95%RH, non-condensing				
4	Storage ambient Humidity	5 ~ 95%RH, non-condensing				
5	Vibrations	Occasional vibration			-	IEC 61131-2
		Frequency	Acceleration	Amplitude	Sweep count	
		10 ≤ f < 57Hz	-	0.075mm	10 times for each X, Y, Z axis	
		57 ≤ f ≤ 150Hz	9.8m/s <sup>2</sup> {1G}	-		
		Continuous vibration				
		Frequency	Acceleration	Amplitude		
10 ≤ f < 57Hz	-	0.035mm				
57 ≤ f ≤ 150Hz	4.9m/s <sup>2</sup> {0.5G}	-				
6	Shocks	<ul style="list-style-type: none"> <li>Maximum shock acceleration: 147 m/s<sup>2</sup> {15G}</li> <li>Duration time: 11ms</li> <li>Pulse wave: half sine pulse ( 3 shocks per axis, on X, Y, Z axis )</li> </ul>				IEC 61131-2
7	Noise Immunity	Square wave Impulse noise	± 1,500 V			LGIS' Internal Standard
		Electronic discharge	Voltage: 4 kV ( Discharge by contact )			IEC 61131-2, IEC 1000-4-2
		Radiated electromagnetic field noise	27 ~ 500 MHz, 10 V/m			IEC 61131-2, IEC 1000-4-3
		Fast transient & burst noise	Item	Power supply	Digital I/O (24V and up)	Digital I/O (less than 24V) Analog I/O Interface
Voltage	2kV		1kV	0.25kV		
8	Atmosphere	Free of corrosive gases and excessive dust				
9	Altitude	Up to 2,000m				
10	Pollution degree	2				
11	Cooling method	Air-cooling				

#### REMARK

- IEC (International Electrotechnical Commission): An international civilian institute who establishes international standards in area of electric and electronics.
- Pollution degree: An indicator, which indicates pollution degree, which determine insulation performance of equipment.
  - \* Pollution degree 2 : Normally, only non-conductive pollution occurs. Occasionally, however, a temporary conductivity caused by condensation shall be expected.

Main Unit



No.	Name	Description
①	PWR LED	Indicates status of power supply to the system <ul style="list-style-type: none"> <li>• On : When the supplied power is normal</li> <li>• Off : When the supplied power is abnormal</li> </ul>
	RUN LED	Indicates operating status of main unit <ul style="list-style-type: none"> <li>• On : Indicates local key switch or remote running mode</li> <li>• Off : with the followings, LED turns off                             <ul style="list-style-type: none"> <li>- When the supplied power to the main unit is abnormal.</li> <li>- While key switch is on stop mode</li> <li>- Detecting an error which makes operation stop</li> </ul> </li> </ul>
	ERR LED	Indicates operating status of CPU <ul style="list-style-type: none"> <li>• Flickering : self-inspected error</li> <li>• Off: CPU is working normal.</li> </ul>

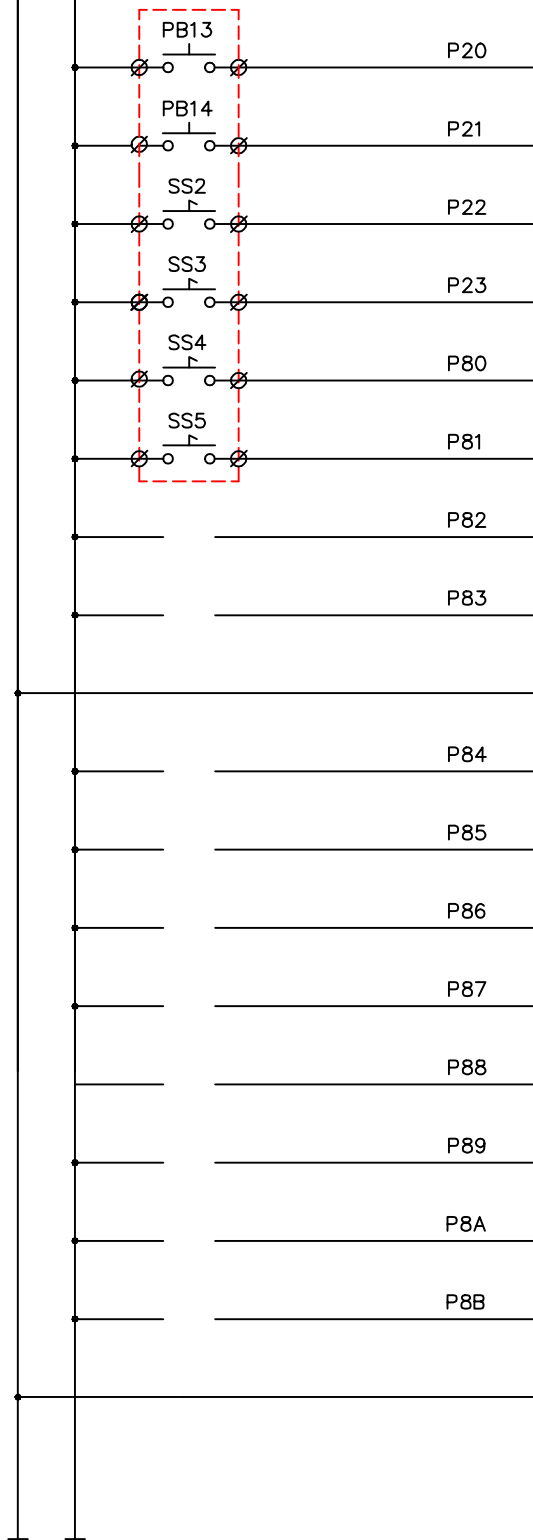
No	Name	Description
②	I/O LED	Indicates operating status of I/O
③	Built-in RS-485 connector (Except K7M-DR10/14UE)	2-pin connector for built-in RS-485 communications.
④	Key switch for mode creation (Except economic type)	Designates main unit's operation mode <ul style="list-style-type: none"> <li>• RUN : Run program operation</li> <li>• STOP: Stop program operation</li> <li>• PAU / REM: usage of each modules are as follows: <ul style="list-style-type: none"> <li>- PAUSE : temporary stopping program operation</li> <li>- REMOTE : designates remote driving</li> </ul> </li> </ul>
⑤	Dip-switch for Cnet I/F	See Chapter 5.
⑥	RS-232C connector	9-pin DIN connector to connect with external devices like KGLWIN
⑦	Expansion connector cover	Connector cover to connect with expansion unit
⑧	Terminal block cover	Protection cover for wiring of terminal block
⑨	Private hook DIN rail	Private part hook for DIN rail

## Layout

DR.N 1005-8105



DC+ COM1

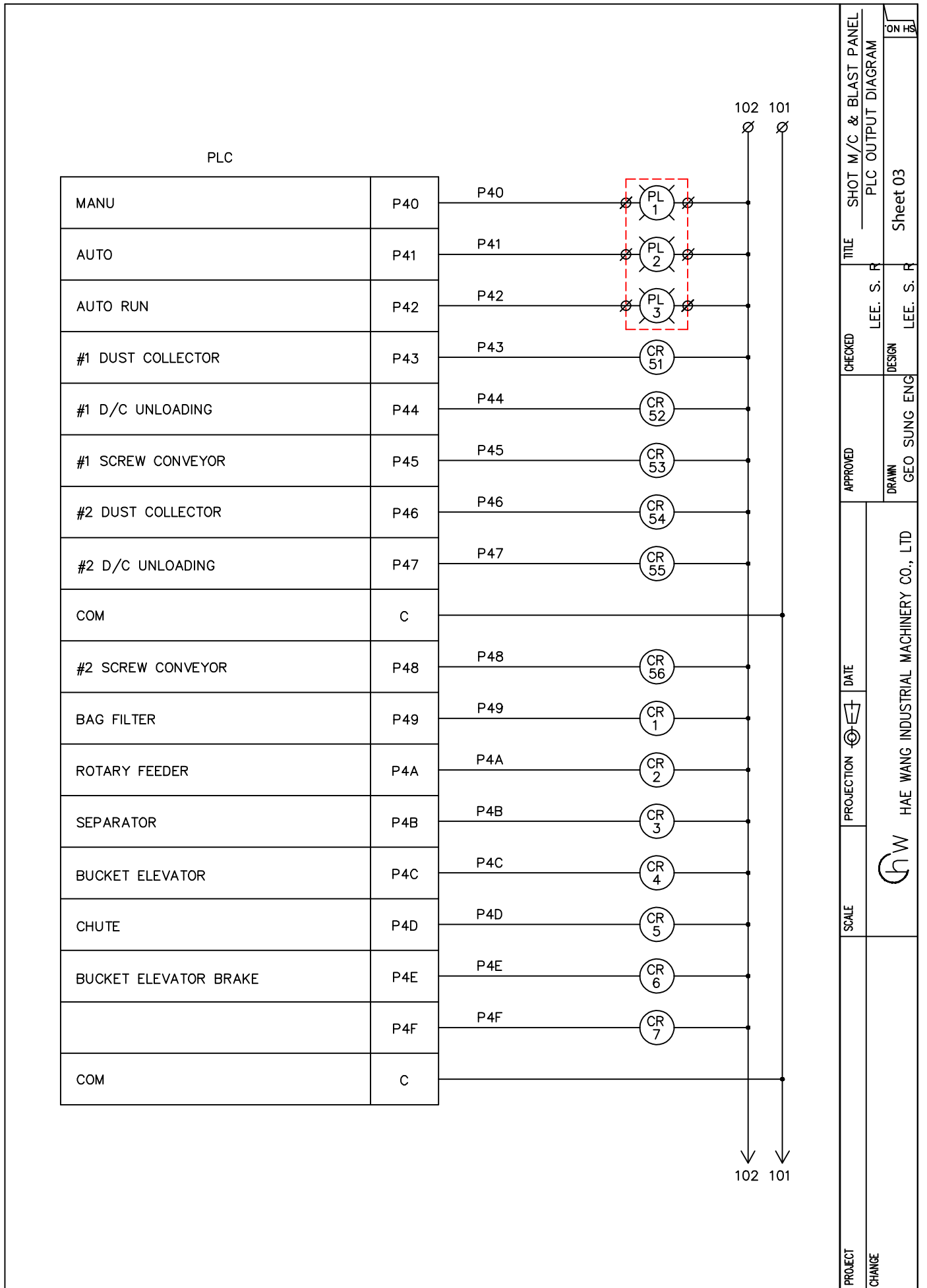


PLC

P20	P20	?? ?? ?? ON
P21	P21	?? ?? ?? OFF
P22	P22	#1 D/C AIR PULSE MANU?AUTO
P23	P23	#2 D/C AIR PULSE MANU?AUTO
P80	P80	B/F AIR PULSE MANU?AUTO
P81	P81	HOOD DAMPER OFF?ON
P82	P82	
P83	P83	
	C	
P84	P84	
P85	P85	
P86	P86	
P87	P87	
P88	P88	
P89	P89	
P8A	P8A	
P8B	P8B	
	C	

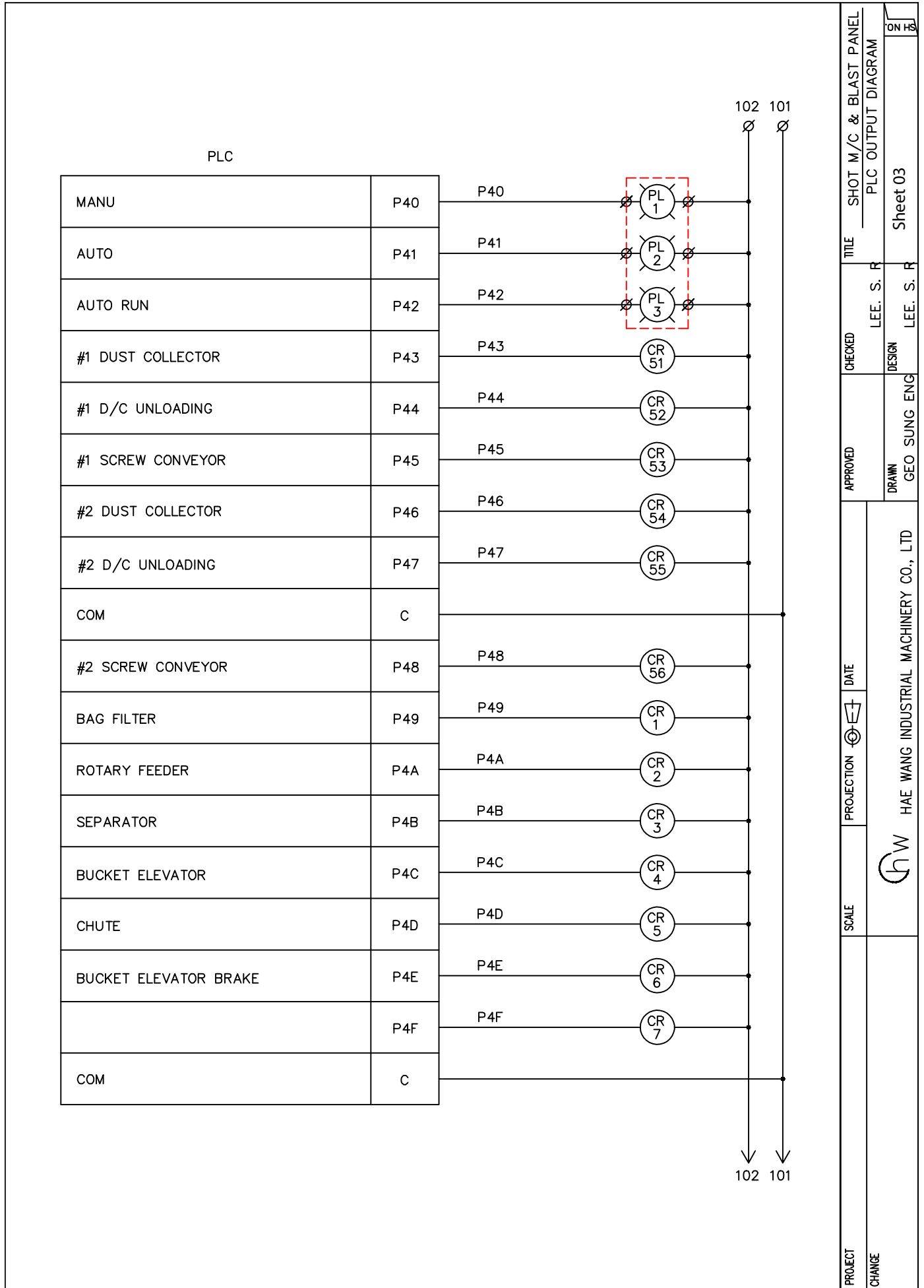
PROJECT CHANGE	SCALE	PROJECTION	DATE	APPROVED	CHECKED	TITLE	ON HS
				LEE. S. R	LEE. S. R	SHOT M/C & BLAST PANEL PLC INPUT DIAGRAM	Sheet 02
HAE WANG INDUSTRIAL MACHINERY CO., LTD				DRAWN	DESIGN		
HW				GEO SUNG ENG	LEE. S. R		

Electric Drawing



PROJECT CHANGE	SCALE	PROJECTION	DATE	APPROVED	CHECKED	TITLE	ON H
	HAE WANG INDUSTRIAL MACHINERY CO., LTD			DRAWN GEO SUNG ENG	DESIGN LEE. S. R	SHOT M/C & BLAST PANEL PLC OUTPUT DIAGRAM	Sheet 03

Electric Drawing



PROJECT CHANGE	SCALE	PROJECTION	DATE	APPROVED	CHECKED	TITLE
				DRAWN	DESIGN	SHOT M/C & BLAST PANEL PLC OUTPUT DIAGRAM
					LEE. S. R	Sheet 03
					LEE. S. R	ON H/S
HAE WANG INDUSTRIAL MACHINERY CO., LTD GEO SUNG ENG						