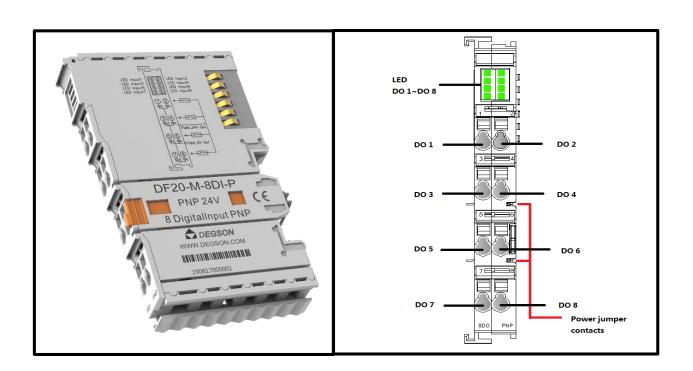


◆ 8 channel Digital output /24VDC/PNP(DF20-M-8DO-P)

- It transmits binary control signals from the automation device to the connected actuators (e.g., magnetic valves)
- 8-channel digital output, active PNP low level.
- Each output module has a noise-rejection filter.
- Each output module is equipped with an LED indicator.
- Field and system levels are Photoelectric isolated.
- Protection level IP20.





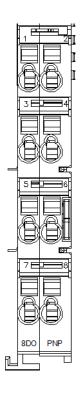
1.Specification

Technical data						
Number of digital outputs	8					
Number of Channels	8					
Signal type	Voltage					
Signal type (voltage)	24V DC PNP					
Connection type	1-line					
Output characteristic	Low-side switching					
Switching Frequency (resistance/lamp load)	<1000Hz					
Switching Frequency (Inductive load)	<0.2Hz					
Response Time of the Protection Circuit	<100us					
Output current per channel(MAX)	500 mA					
Load type	Inductance, resistance, lamp					
"0" signal voltage	high-impedance state					
"1" signal voltage	24V DC					
Data size	1 byte					
Supply voltage (system)	5VDC; via data contacts					
Current consumption	<50mA					
Working voltage	24VDC (-15%~+20%) via power jumper contacts					
Isolation	500Vsystem/field Electrical isolation					
Reverse protection	Yes					
Indicators	8 x LED Green					
Number of incoming power jumper contacts	2					
Number of outgoing power jumper contacts	2					
Connection data						
Connection technology: inputs / outputs	8 xvia pluggable connector					
Connection type 1	Inputs/Outputs					
Area of wire	0.2~2.5mm ² /28~14AWG					
Strip length	8~9mm/0.31~0.35inches					
Mounting type	DIN-35 RAIL					
Material Data	DIIV 00 TVIL					
Color	light grov					
Housing material	light gray Polycarbonate; polyamide 6.6					
Conformity marking	CE					
	CE					
Environmental requirements	05 00°0					
Ambient temperature (operation)	-25~60°C					
Surrounding air temperature (storage)	-40~85°C					
Protection type	IP20					
Pollution degree (5)	2, Per IEC 61131-2					
Operating altitude	without temperature derating: $0\sim$ 2000m					
Mounting position	Any					
Relative humidity (without condensation)	5~95%RH					
Vibration resistance	4g, Per IEC 60068-2-6					
Shock resistance	15g, Per IEC 60068-2-27					
EMC immunity to interference	Per EN 61000-6-2					
EMC emission of interference	Per EN 61000-6-3					
Exposure to pollutants	Per IEC 60068-2-42 and IEC 60068-2-43					
Permissible pollutant concentration H2S at a relative humidity < 75%	10ppm					
Permissible pollutant concentration SO 2 at a relative humidity < 75%	25ppm					



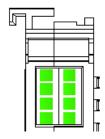
2.Hardware Interface

Wiring Terminal



No.	Signal	Description		
1	DO 1			
2	DO 2			
3	DO 3			
4	DO 4	High lovel signal output		
5	DO 5	High level signal output		
6	DO 6			
7	DO 7			
8	DO 8			

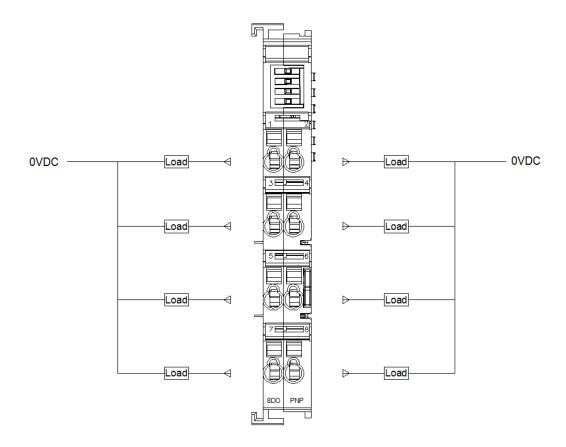
LED Indicator



1~8 channel Indicators	Definition		
ON	Output signal valid		
OFF	Output signal invalid		



Wiring





3. Process data definition

DF20-M-8DO-P Module process data definition

Output data										
Bit No	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0		
Byte 0	DO									
	Channel 8	Channel 7	Channel 6	Channel 5	Channel 4	Channel 3	Channel 2	Channel 1		

Data description:

DO Channel (1~8): When the bit is 1, the output signal of the corresponding channel is effective, the output is high level, and the output is invalid when it is 0.

1: Output signal valid 0: Output signal invalid

4. Machinery installation

Dimension drawing

The installation size is shown in the following figure (unit: mm):

