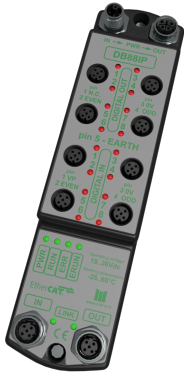


## Introduction



DB88IP, DI16IP and DO16IP are slave module EtherCAT with up to 16 isolated input/output channels. Diagnostic leds indicate EtherCAT connection status, digital input and encoder status.

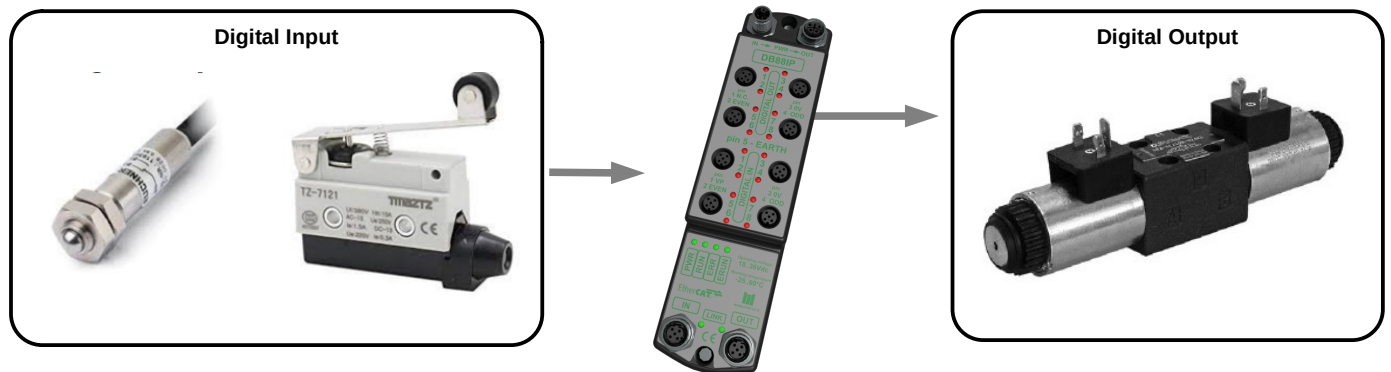



## Hardware Specification

Model	DB88IP	DI16IP	DO16IP
<b>Digital Output</b>			
Channels	8	0	16
Output current for each channel	2A		
Load type	Ohmic, inductive and lamp		
Output protection	Shortcircuit and overload		
Switching time	< 1mS		
<b>Digital Input</b>			
Channels	8	16	0
OFF voltage level	< 5V		
ON voltage level	> 15V		
Maximum input voltage	36V		
Input filter	Typical 1 mS		
Input current	4mA / Channel @ 24V		
<b>Electrical</b>			
Supply voltage Vs/Vp	24 Vdc typical, range 18...36V		
Electrical isolation	2500Vrms		
Power consumption	0.5W		
Interface	EtherCAT slave		
Specification	EN 61131-2		
Diagnostic leds	Power ● Run ● Error ● EtherCAT run ● Link IN ● Link OUT ●		

Mechanical	
Dimensions [W x H x D]	55mm x 213mm x 28mm
Installation	2 fixing holes 4 mm diameter for M4 - pitch 196mm
Environment	
Operating/storage temperature	-20°C to 60°C / -20°C to 85°C
Relative humidity	Max 95% without condensation
Degree of protection	IP65

## Application

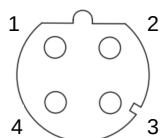




Pin Assignments DB88IP

<b>Power</b> <b>M12 L code</b>	1 - GND Vp/Vs 2 - GND Vp/Vs 3 - 24Vs 4 - 24Vp 5 - Earth		1 - GND Vp/Vs 2 - GND Vp/Vs 3 - 24Vs 4 - 24Vp 5 - Earth
<b>Output 1..4</b> <b>M12 A code</b>	1 - NC 2 - Output 2 3 - GND Vp/Vs 4 - Output 1 5 - Earth		1 - NC 2 - Output 4 3 - GND Vp/Vs 4 - Output 3 5 - Earth
<b>Output 5..8</b> <b>M12 A code</b>	1 - NC 2 - Output 6 3 - GND Vp/Vs 4 - Output 5 5 - Earth		1 - NC 2 - Output 8 3 - GND Vp/Vs 4 - Output 7 5 - Earth
<b>Inputs 1..4</b> <b>M12 A code</b>	1 - 24Vs 2 - Input 2 3 - GND Vp/Vs 4 - Input 1 5 - Earth		1 - 24Vs 2 - Input 4 3 - GND Vp/Vs 4 - Input 3 5 - Earth
<b>Inputs 5..8</b> <b>M12 A code</b>	1 - 24Vs 2 - Input 6 3 - GND Vp/Vs 4 - Input 5 5 - Earth		1 - 24Vs 2 - Input 8 3 - GND Vp/Vs 4 - Input 7 5 - Earth
<b>EtherCAT</b> <b>M12 D code</b>	1 - TD+ 2 - RD+ 3 - TD- 4 - RD-		1 - TD+ 2 - RD+ 3 - TD- 4 - RD-

M12



1.TD+	_____	1.TX+
2.RD+	_____	3.RX+
3.TD-	_____	2.TX-
4.RD-	_____	6.RX-

RJ45

