

# Analog Input / Analog Output (Loop Powered)

## Features

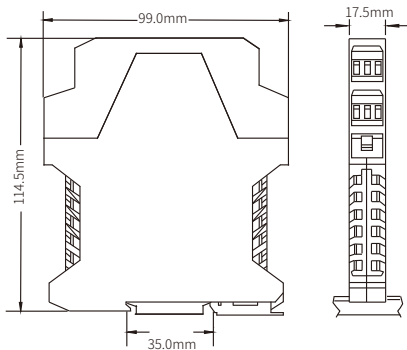
24V DC Loop powered  
 Suitable for analog input and analog output  
 Support HART communication

1/1: CZ3031  
 2/2: CZ3032  
 Application 1: Analog Input

1/1: CZ3031  
 2/2: CZ3032  
 Application 2: Analog Output

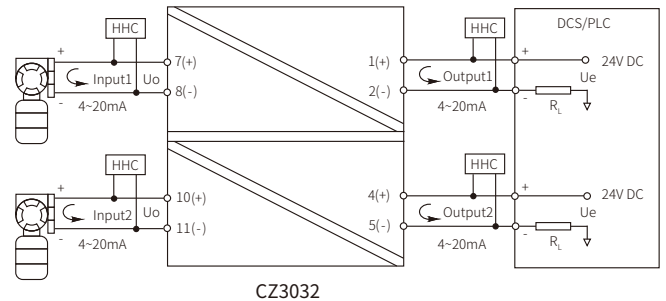
Input	Application 1: Analog Input	Application 2: Analog Output
Input Current	4~20mA(HART)	4~20mA(HART)
Voltage Drop	$U_d \leq 6V$	$U_d \leq 6V$
Distribution Voltage	$U_o \geq U_e - R_L \times 0.02 - 6$	
Output		
Output Current	4~20mA(HART)	4~20mA(HART)
Load Resistance	$R_L \geq 250\Omega$ (HART)	$R_L \leq (U_e - 6)/0.02$
General Parameters		
Loop Supply Voltage( $U_e$ )	20~30V DC	20~30V DC
Power Reverse Protection	Support	Support
Power Dissipation	0.1W	0.1W
Transmission Accuracy	0.4%F.S.	0.2%F.S.
Temperature Drift	0.01%F.S./°C	0.01%F.S./°C
Response Time (0~90%)	$\leq 0.5$ ms	$\leq 0.5$ ms
Dielectric Strength	1500V AC;1min	1500V AC;1min
Insulation Resistance	$\geq 100M\Omega$	$\geq 100M\Omega$
EMC Standards	GB/T 18268(IEC 61326-1)	GB/T 18268(IEC 61326-1)
Ambient Temperature	-20°C~+60°C	-20°C~+60°C
Suitable Field Apparatus	2-wire transmitter	2-wire Valve positioner/ Electrical converter

## Dimensions

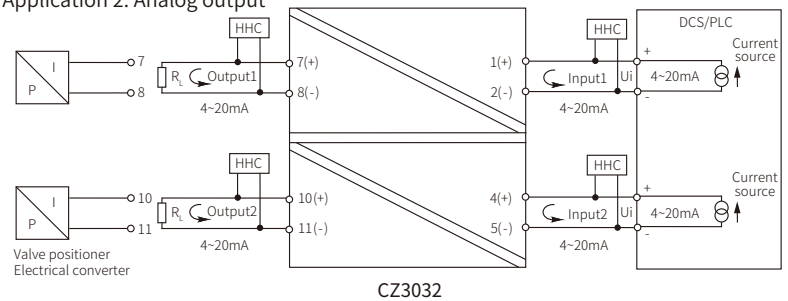


## Connection

### Application 1: Analog input



### Application 2: Analog output



Note:

1. HHC (HART Hand Held Communicator) cannot be used simultaneously on the input side and output side
2. CZ3031 refers to the CZ3032 channel 1 to wire.