

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Ex i measuring transducer power supply and input signal conditioner, HART-transparent. Transfers supplied or active 0/4 - 20 mA electrically isolated signals from the Ex area to two loads in the safe area. 4-way electrical isolation, PLd, screw connection

Product Features











Key commercial data

Packing unit	1 pc
Custom tariff number	85437090
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	12.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C 60 °C (Any mounting position)
Ambient temperature (storage/transport)	-40 °C 80 °C
Maximum altitude	≤ 2000 m
Permissible humidity (operation)	10 % 95 % (non-condensing)



Technical data

Ambient conditions

Noise immunity	EN 61000-6-2 When being exposed to interference, there may be minimal deviations.
Degree of protection	IP20

Input data

Signal input	Repeater power supply operation
Current input signal	4 mA 20 mA
Transmitter supply voltage	> 16 V (20 mA)
	> 15.1 V (23 mA)
Voltage drop	approx. 3.9 V
Signal input	Signal conditioner operation
Current input signal	4 mA 20 mA
Voltage drop	approx. 3.9 V

Output data

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Repeater power supply operation
4 mA 20 mA (active)
< 450 Ω (20 mA)
< 380 Ω (23 mA)
< 20 mV _{rms}
0 mA (Cable break in the input)
≥ 23 mA (Cable short-circuit in the input)
Signal conditioner operation
4 mA 20 mA (active)
< 450 Ω (20 mA)
< 380 Ω (23 mA)
< 20 mV _{rms}
0 mA (Cable break in the input)
0 mA (Cable short-circuit in the input)

Power supply

Designation	Repeater power supply operation
Supply voltage range	19.2 V DC 30 V DC (24 V DC (-20% +25%))
Max. current consumption	< 75 mA (24 V DC / 20 mA)
Power consumption	< 1.45 W (24 V DC/ 20 mA)

Connection data

Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²



Technical data

Connection data

Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	7 mm
Screw thread	M3
Connection method	Screw connection
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

General

Maximum transmission error	< 0.1 % (of final value)
Transmission error, typical	< 0.05 % (of final value)
Maximum temperature coefficient	< 0.01 %/K
Step response (10-90%)	< 1.3 ms (for 4 mA 20 mA step)
Status display	Green LED (PWR supply voltage)
Inflammability class according to UL 94	V0
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Housing material	PA 66-FR
Color	yellow
Designation	Input/output/power supply
Electrical isolation	300 V _{rms} (Rated insulation voltage (surge voltage category II; pollution degree 2, safe isolation as per EN 61010-1))
	2.5 kV (50 Hz, 1 min., test voltage)
Designation	Input/output
Electrical isolation	375 V (Peak value in accordance with EN 60079-11)
Designation	Input/power supply
Electrical isolation	375 V (Peak value in accordance with EN 60079-11)
Designation	Output 1/output 2
Electrical isolation	1.5 kV AC (50 Hz, 1 min., test voltage)
Conformance	CE-compliant, additionally EN 61326
ATEX	# II (1) G [Ex ia Ga] IIC/IIB
	# II (1) D [Ex ia Da] IIIC
	# II 3 (1)G Ex nA [ia Ga] IIC/IIB T4 Gc
IECEx	[Ex ia Ga] IIC/IIB
	[Ex ia Da]
	Ex nA [ia Ga] IIC/IIB T4 Gc
UL, USA / Canada	UL 61010
	Class I Div 2; IS for Class I, II, III Div 1



Technical data

Data communication (bypass)

HART function	Yes
Protocols supported	HART

Safety data

Operation	Repeater power supply operation
Max. output voltage U _o	25.2 V
Max. output current I _o	93 mA
Max. output power P _o	587 mW
Group	IIC
Max. external inductivity L _o	2 mH
Max. external capacity C _o	107 nF
Group	IIB
Max. external inductivity L _o	4 mH
Max. external capacity C _o	820 nF
Safety-related maximum voltage U _m	253 V AC (125 V DC)
Operation	Signal conditioner operation
Input voltage U _i	≤ 30 V
Input current I _i	≤ 150 mA
Max. internal inductance L _i	negligible
Max. internal capacitance C _i	negligible

Classifications

eCl@ss

eCl@ss 5.1	27210121
eCl@ss 6.0	27200206
eCl@ss 8.0	27210121

ETIM

ETIM 4.0	EC002653
ETIM 5.0	EC002653

Approvals

Approvals

Approvals

UL Listed / cUL Listed / GL / cULus Listed



Approvals Ex Approvals IECEx / ATEX / UL Listed / cUL Listed / cULus Listed Approval submitted Approval details UL Listed CUL Listed

Drawings

Block diagram

