

ACT20X
ACT20X-2SDI-2HDO-S

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The ACT20X-SDI-HDO/2SDI-2HDO valve control modules are controlled from the safe zone on the input side by the switching signals (NPN, PNP) and provide digital outputs to switch actuators (solenoids, alarms) in Ex Zone 0.

Depending on the module, the output current is limited for the ignition protection groups IIC/IIB to 35 mA or 60 mA (only one channel).

Integrated alarm contacts issue an alert in the event of a malfunction; this makes troubleshooting easier and increases the system availability.

The rail mounted disconnect-switch amplifiers are optionally available in one- or two-channel versions. With 11 mm width per channel, the devices need little space in the electrical cabinet.

General ordering data

Order No.	8965420000
Type	ACT20X-2SDI-2HDO-S
Version	ACT20X, EX signal isolating converter, 2-channel version, For gas group IIC 35 mA
GTIN (EAN)	4032248785032
Qty.	1 pc(s).

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Technical data

Dimensions

Length	119.2 mm	Width	22.5 mm
Height	113.6 mm		

Temperatures

Operating temperature	-20 °C...+60 °C	Storage temperature	-20 °C...+85 °C
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input

Type	NPN, PNP switching signal	Trigger level high	≥ 4.0 V DC (NPN), ≥ 10V DC (PNP)
Triggerlevel low	≤ 2.0 V DC (NPN), ≤ 8.0 V DC (PNP)	Input voltage	≤ 28 V DC
Input resistance, voltage	3.5 kΩ		

Output

Residual ripple (current loop)	< 40 mV _{eff}
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Alarm output

Type	Relay, 1 NC (voltage-free)	Nominal switching voltage	≤ 125 V AC / 110 V DC (safe area) ≤ 32 V AC / 32 V DC (Zone 2)
Continuous current	≤ 0.5 A AC / 0.3 A DC (safe zone), ≤ 0.5 A AC / 1 A DC (Zone 2)	Power rating	≤ 62.5 VA / 32 W (safe area) ≤ 16 VA / 32 W (Zone 2)

General specifications

Supply voltage	19.2 – 31.2 V DC	Type of connection	Screw connection
Power consumption	≤ 3 W (2 channels)	Protection degree	IP 20
Humidity	0...95 % (no condensation)		

Insulation coordination

EMC standards	DIN EN 61326	Insulation voltage	2.6 kV (input / output)
Rated voltage	300 V		

Data for Ex applications (ATEX)

Voltage U ₀	28 V DC	Current I ₀	≤ 110 mA
Power P ₀	≤ 0.95 W		

Ratings IECEx/ATEX

Certificate No. (ATEX)	KEMA10ATEX0019X	Certificate No. (IECEx)	IECExKEM09.0071X
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Classifications

ETIM 3.0	EC002479	ETIM 4.0	EC002479
UNSPSC	30-21-18-01	eClass 5.1	27-21-01-07
eClass 6.0	27-21-01-07		

Datasheet

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Technical data

Approvals

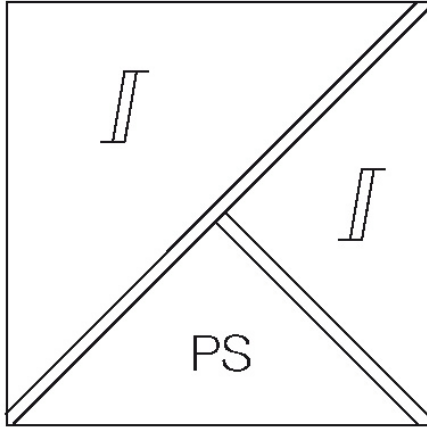
Approvals	CULUS; FMEX; IECEXKEM; KEMAATEX
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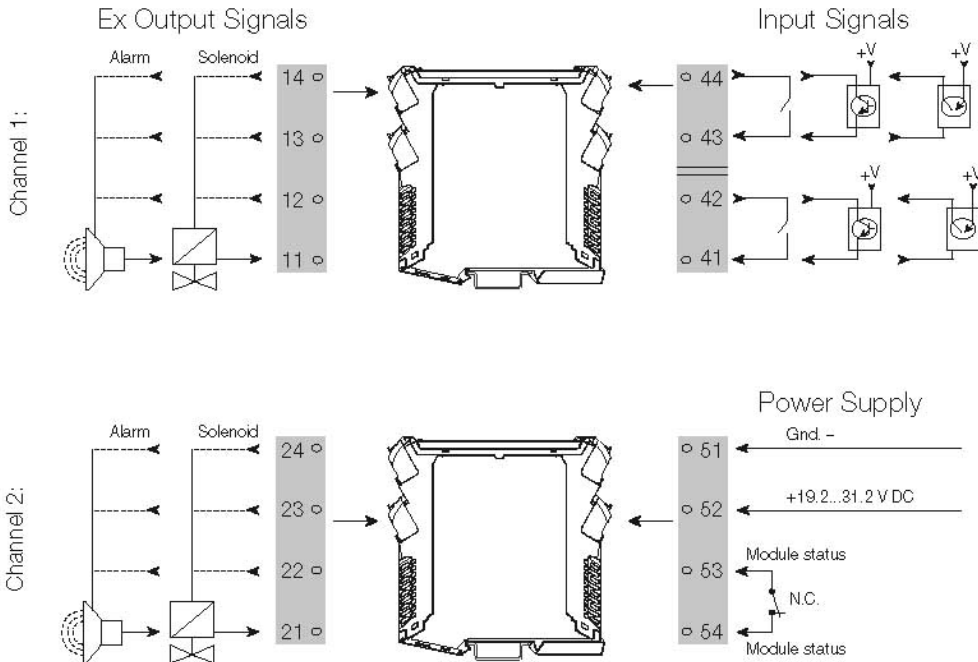
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Drawings


Electric symbol



Circuit diagram



 Zone 0, 1, 2, 20, 21, 22 / Cl. I/II/III, div. 1 gr. A-G

 Zone 2 / Cl. 1, div. 2, gr. A-D or safe area