

ACT20X
ACT20X-2HDI-2SDO-S

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The ACT20X HDI SDO S / 2HDI-2SDO-S isolating switch amplifiers are specially designed for recording NAMUR sensor signals and digital switching signals which originate from the Ex zone 0. Negative-switching (NPN) transistor outputs are used to transmit the signals to applications in the safe zone.

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

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General ordering data

Order No.	8965390000
Type	ACT20X-2HDI-2SDO-S
Version	ACT20X, EX signal isolating converter, 2-channel version, with transistor output
GTIN (EAN)	4032248784905
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

Trigger level high	> 2.1 mA	Triggerlevel low	< 1.2 mA
Sensor	NAMUR sensor, according to EN60947, Switch with or without RS, RP	Output signal in case of wire break	< 0.1 mA, > 6.5 mA (in case of wire break)
Sensor supply	8 V DC / 8 mA	Resistance	RP = 750 Ω / RS = 15kΩ
Input resistance	1 kΩ	Input frequency	0...5 kHz
Pulse duration	> 0.1 ms		

Output

Type	NPN transistor output	Switching frequency	5 kHz
Voltage drop at max. load	< 2.5 V DC	Power rating	≤ 80 mA / ≤ 2.4 W
Rated switching voltage	≤ 30 V DC	Pulse duration	≥ 1 ms

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
NAMUR supply	8 V DC / 8 mA	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	10.6 V DC	Current I ₀	12 mA DC
Power P ₀	32 W		

Ratings IECEx/ATEX

Certificate No. (ATEX)	KEMA09ATEX0168X	Certificate No. (IECEx)	IECExKEM09.0072X
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Datasheet**ACT20X**
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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		

Approvals

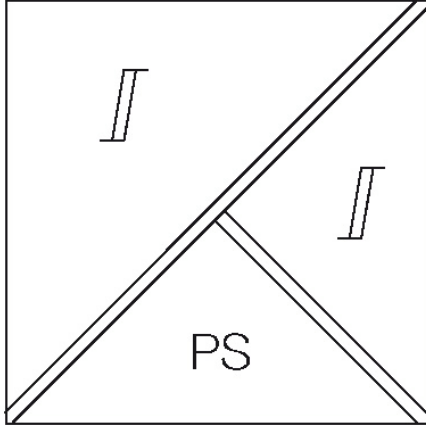
Approvals	CULUS; FMEX; IECEXKEM; KEMAATEX
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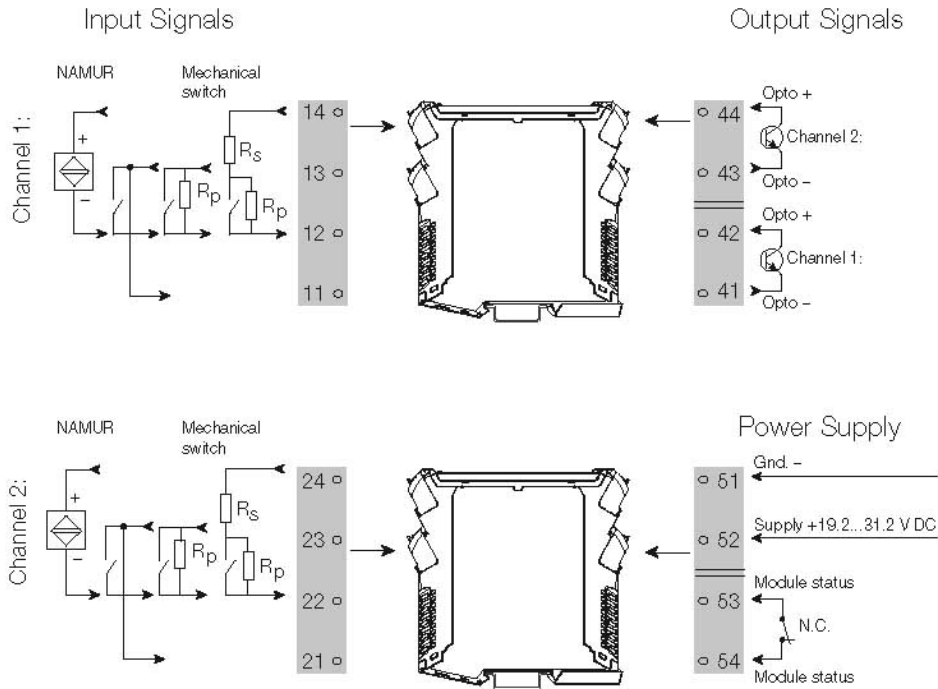
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Drawings


Electric symbol



Circuit diagram



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

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