

## ACT20X ACT20X-SDI-HDO-L-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 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

Type	ACT20X-SDI-HDO-L-S
Order No.	<a href="#">8965400000</a>
Version	ACT20X, EX signal isolating converter, 1-channel version, For gas group IIC 35 mA
GTIN (EAN)	4032248785018
Qty.	1 pc(s).

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**Technical data****Dimensions and weights**

Width	22.5 mm	Width (inches)	0.886 inch
Height	117.2 mm	Height (inches)	4.614 inch
Depth	113.6 mm	Depth (inches)	4.472 inch
Net weight	170 g		

**Temperatures**

Humidity	0...95 % (no condensation)	Operating temperature	-20 °C...60 °C
Storage temperature	-20 °C...85 °C		

**Probability of failure**

MTBF	175 Years
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**Input**

Type	NPN, PNP switching signal	Input voltage	≤ 28 V DC
Input resistance, voltage	3.5 kΩ		

**Output**

Type	intrinsically safe circuit, digital, output = input, direct or inverse (configurable)	Residual ripple (current loop)	< 40 mV <sub>eff</sub>
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**Alarm output**

Alarm function	No supply voltage, Device error	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**

Configuration	With FDT/DTM software	Supply voltage	19.2 – 31.2 V DC
Type of connection	Screw connection, Removable terminal block	Power consumption	≤ 1.9 W
Step response time	10 ms	Protection degree	IP20
Humidity	0...95 % (no condensation)		

**Insulation coordination**

EMC standards	DIN EN 61326, NE 21	Insulation voltage	2.6 kV (input / output)
Rated voltage	300 V		

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**Technical data**
**Data for Ex applications (ATEX)**

Voltage $U_0$	28 V DC	Current $I_0$	$\leq 110$ mA
Power $P_0$	$\leq 0.77$ W	Marking	II (1) G [Ex ia Ga] IIC/IIB/ IIA, II (1) D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I

**Safety-related basic specifications**

Device type	B	Hardware fault tolerance (HFT)	0
$T_{proof}$	5 Years	Safety category	SIL 2
Probability of outage PFH	$4.3 \times 10^{-8} h^{-1}$		

**Safety-related specifications Low demand mode**

Average Probability of Failure on Demand ( $PF_{D_{avg}}$ )	$2.73 \times 10^{-4}$ ( $T_{proof} = 1$ year), $4.52 \times 10^{-4}$ ( $T_{proof} = 2$ years), $9.89 \times 10^{-4}$ ( $T_{proof} = 5$ years)
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**Connection data**

Type of connection	Screw connection, Removable terminal block	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	2.5 mm <sup>2</sup>
Clamping range, rated connection, min.	0.5 mm <sup>2</sup>	Clamping range, rated connection, max.	2.5 mm <sup>2</sup>

**Rated data UL**

UL certificate	E337701.pdf
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**Ratings IECEx/ATEX/cUL**

ATEX certificate	10ATEX0019X.pdf	IEC Ex certificate	IECEx certification
Certificate No. (ATEX)	KEMA10ATEX0019X	Certificate No. (IECEX)	IECEXKEM09.0071X

**Classifications**

ETIM 3.0	EC002479	ETIM 4.0	EC002479
ETIM 5.0	EC002479	ETIM 6.0	EC002653
UNSPSC	30-21-18-01	eClass 5.1	27-21-01-07
eClass 6.2	27-21-01-07	eClass 7.1	27-21-01-07
eClass 8.1	27-21-01-07	eClass 9.0	27-21-01-07
eClass 9.1	27-21-01-90		

**Product information**

Descriptive text ordering data	CBX200 USB configuration adapter - 8978580000
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**Data sheet**

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**Technical data**

**Approvals**

Approvals



ROHS Conform

**Probability of failure**

SIL PAPER [SIL certificate](#)

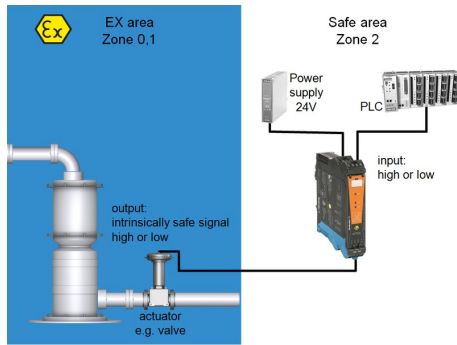
**Downloads**

Engineering data	<a href="#">EPLAN</a>
FDT/DTM Software	<a href="#">WI-Manager + DTM-Library for online installation</a>
Manual	<a href="#">Manual ACT20X- Hardware german / english</a>
Package insert	<a href="#">instruction sheet.pdf</a>
SIL PAPER	<a href="#">SIL certificate</a>
Safety manual	<a href="#">Manual "functional safety"</a>
WI Manager manual	<a href="#">Manual WI-Manager german/english</a>
Declaration of Conformity	<a href="#">Declaration of Conformity</a>

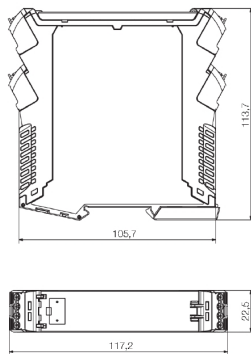
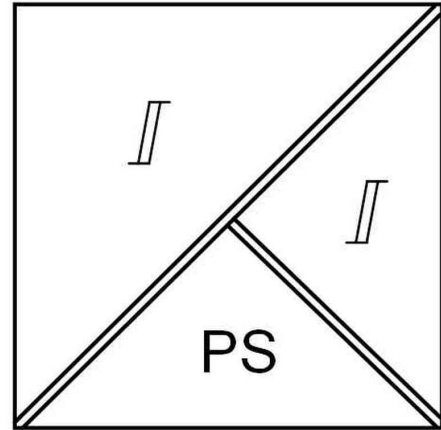
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**Drawings**



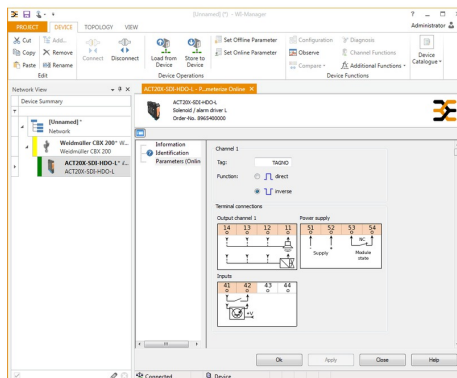
application schematic



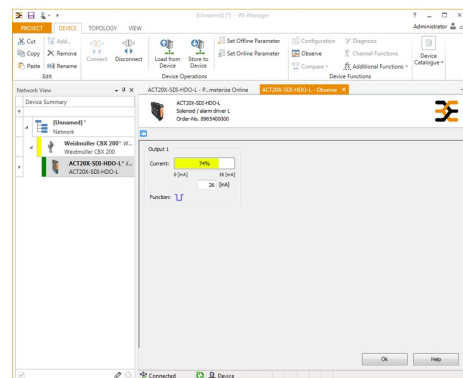
dimensions



screenshot configuration with FDT/DTM software example



screenshot of setup configuration with FDT2 / DTM software

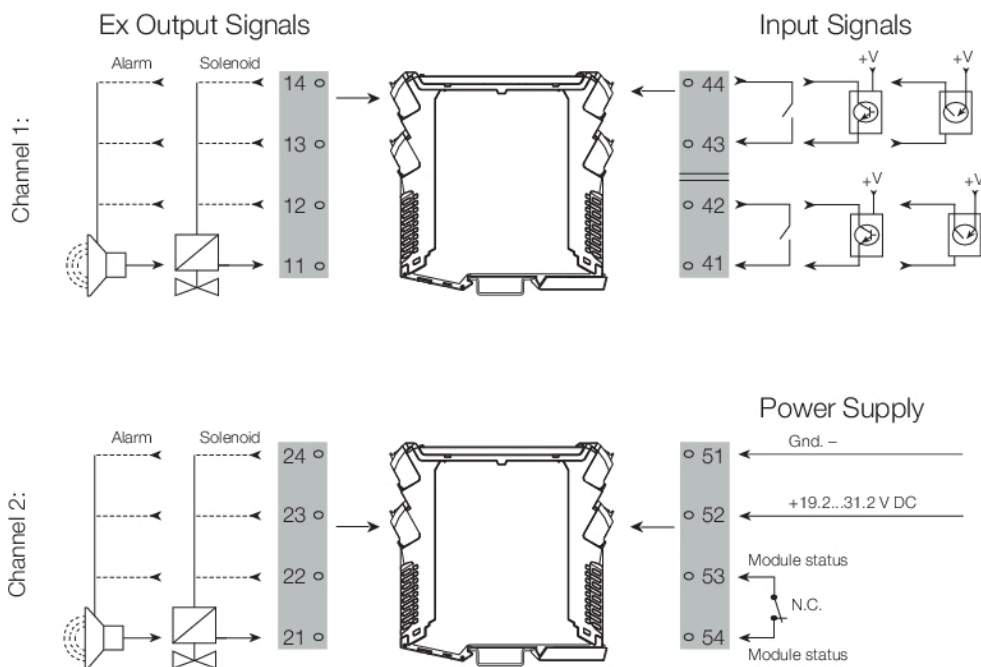



screenshot of "observe" with FDT2 / DTM software


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**Drawings**



 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

# Addresses worldwide

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