

ACT20X
ACT20X-SDI-HDO-H-S

Weidmüller Interface GmbH & Co. KG
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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. | 8965410000 |
| Type | ACT20X-SDI-HDO-H-S |
| Version | ACT20X, EX signal isolating converter, 1-channel version, For ignition group IIB < 60 mA |
| GTIN (EAN) | 4032248785025 |
| 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 |
|-----------------------|-----------------|---------------------|-----------------|

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} |
|--------------------------------|------------------------|

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 | ≤ 135 mA |
| Power P ₀ | ≤ 0.77 W | | |

Ratings IECEx/ATEX

| | | | |
|------------------------|-----------------|-------------------------|------------------|
| Certificate No. (ATEX) | KEMA10ATEX0019X | Certificate No. (IECEx) | IECExKEM09.0071X |
|------------------------|-----------------|-------------------------|------------------|

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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Approvals

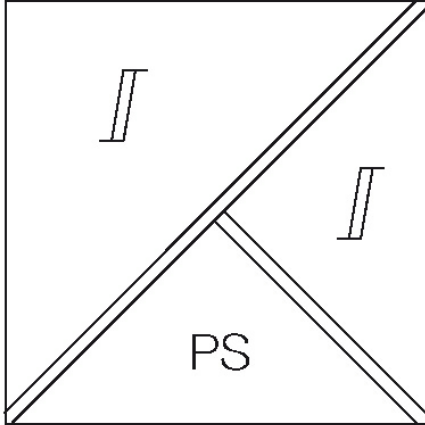
| | |
|-----------|------------------------------------|
| Approvals | CULUS; FMEX; IECEXKEM; KEMAATEX |
|-----------|------------------------------------|

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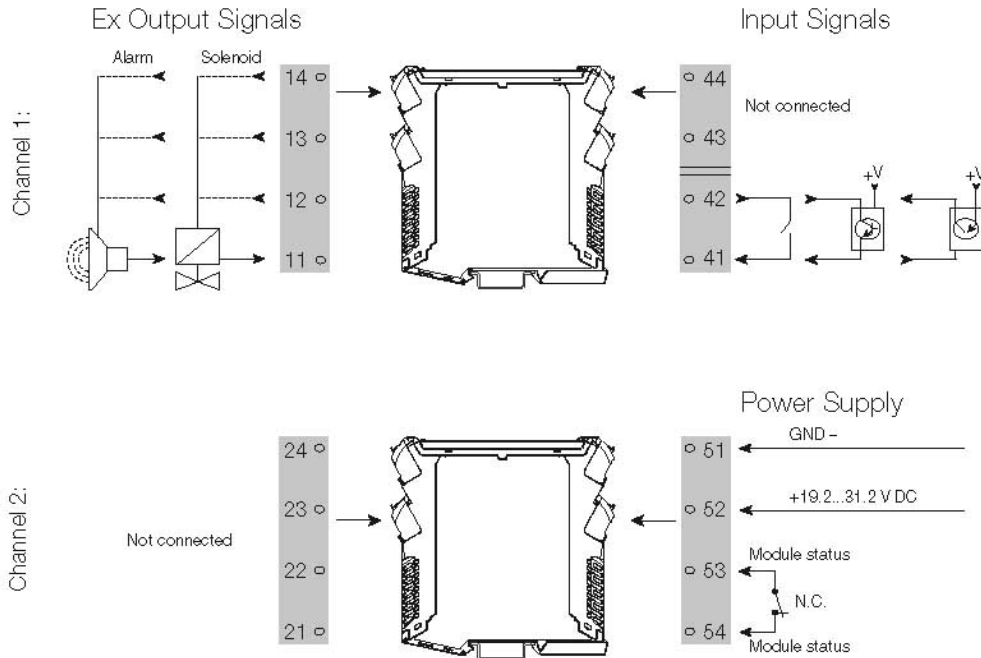
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Drawings


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