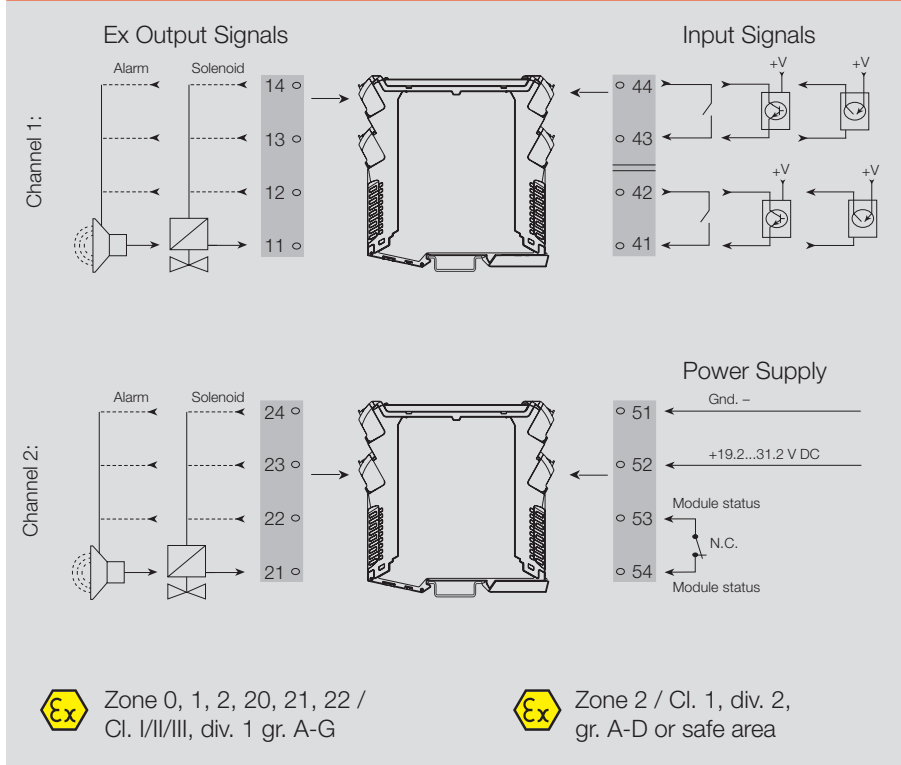


ACT20X

Solenoid driver for ignition protection IIC, 35 mA

The ACT20X-SDI-HDO solenoid driver has an input in the safe zone and an output in the Ex zone 0. This driver is suitable for switching solenoid valves or alarm transmitters. It is optionally available in a single-channel or double-channel version.

B Connection diagram: ACT20X SDI-HDO

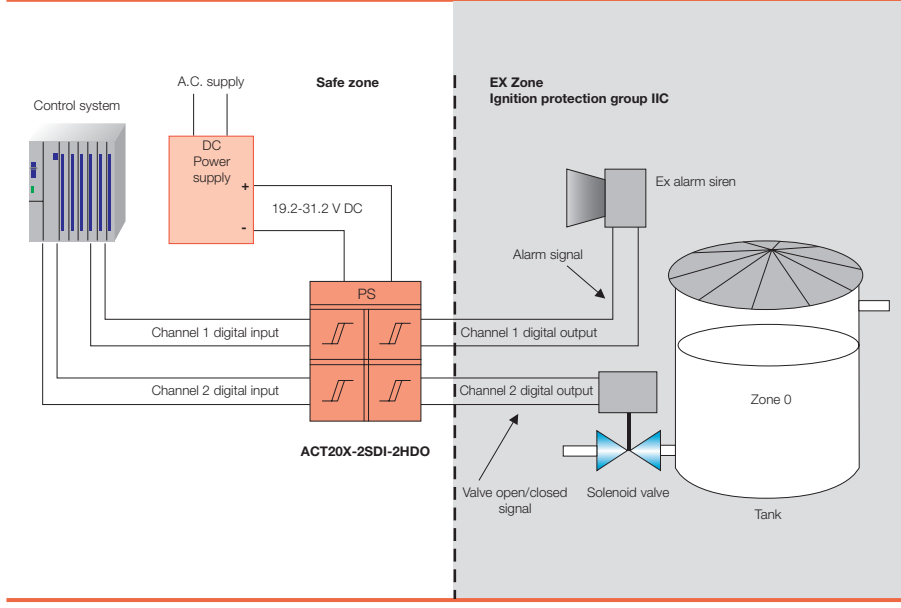


Ex label

| |
|--|
| ATEX |
| II 3 G Ex nA nC IIC T4 |
| II (1) G [Ex ia] IIC/IIA |
| II (1) D [Ex iaD] |
| IECEx |
| Ex nA nC IIC T4 Gc |
| [Ex ia Ga] IIC/IIA |
| [Ex ia Da] IIIC |
| FM |
| Installation in CL I DIV2 GP A-D T4 |
| Protects Ex circuits, in compliance with |
| Cl. I-III ABT 1/2 GP A-G or |
| Cl. I Zn2 AEx/Ex nA nC [ia] IIC T4. |

Note

Application: Inflow control in Ex zone with ignition protection group IIC



Output data: Solenoid driver for ignition protection group IIC (< 35 mA)

| Connection terminal | | | |
|---------------------|----------------|-------------|-------|
| Channel 1 | U without load | U with load | I max |
| 11-12 | Min. 24 V | Min. 12.5 V | 35 mA |
| 11-13 | Min. 24 V | Min. 13.5 V | 35 mA |
| 11-14 | Min. 24 V | Min. 14.5 V | 35 mA |

Note

for ignition protection group IIC (< 35 mA)

| Connection terminal | | | |
|---------------------|----------------|-------------|-------|
| Channel 2 | U without load | U with load | I max |
| 21-22 | Min. 24 V | Min. 12.5 V | 35 mA |
| 21-23 | Min. 24 V | Min. 13.5 V | 35 mA |
| 21-24 | Min. 24 V | Min. 14.5 V | 35 mA |

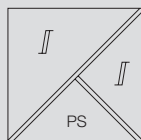
Note

Solenoid driver

- The solenoid driver controls intrinsically safe valves, LEDs, acoustic alarms, etc.
- PC configuration with FDT/DTM software, download at www.weidmueller.com
- Output current is limited to 35 mA for gas group IIC
- 1 or 2 channels in one module
- Relay output for error alarm

ACT20X-SDI-HDO / 2SDI-2HDO

For gas group IIC 35 mA



Technical data

| Input | |
|---|---|
| Type | NPN, PNP switching signal |
| Input voltage | ≤ 28 V DC |
| Input resistance, voltage | 3.5 kΩ |
| Triggerlevel low | ≤ 2.0 V DC (NPN), ≤ 8.0 V DC (PNP) |
| Triggerlevel high | ≥ 4.0 V DC (NPN), ≥ 10V DC (PNP) |
| Alarm output | |
| Type | Relay, 1 NO (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 / 1 A DC (safe area, Zone 2) |
| Power rating | ≤ 62.5 V AC / 32 W (safe area) ≤ 16 VA / 32 W (Zone 2) |
| General data | |
| Supply voltage | 19...31.2 V DC |
| Power consumption | ≤ 3 W (2 channels) |
| Tightening torque, min. / Tightening torque, max. | 0.4 Nm / 0.6 Nm |
| Ambient temperature / Storage temperature | -20 °C...+60 °C / -20 °C...+85 °C |
| Approvals | |
| Approvals | cULus; CE; ATEX; IECEX; FM |
| Insulation coordination | |
| Insulation voltage | 2.6 kV (input / output) |
| Rated voltage | 300 V |
| EMC standards | DIN EN 61326 |
| Data for Ex applications (ATEX) | |
| Voltage U ₀ | 28 V DC |
| Current I ₀ | ≤ 135 mA |
| Power P ₀ | ≤ 0.95 W |

| Dimensions | |
|--|-----------------|
| Clamping range (nominal / min. / max.) | mm ² |
| Length x width x height | mm |
| Note | |

| Screw connection | |
|------------------|----------------------|
| | 2.5 / 0.5 / 2.5 |
| | 119.2 / 22.5 / 113.6 |

Ordering data

| Type | Qty. | Order No. |
|--------------------------|------|------------|
| 1-channel version | | |
| ACT20X-SDI-HDO-L-S | 1 | 8965400000 |
| 2-channel version | | |
| ACT20X-2SDI-2HDO-S | 1 | 8965420000 |

CBX200 USB configuration interface - 8978580000

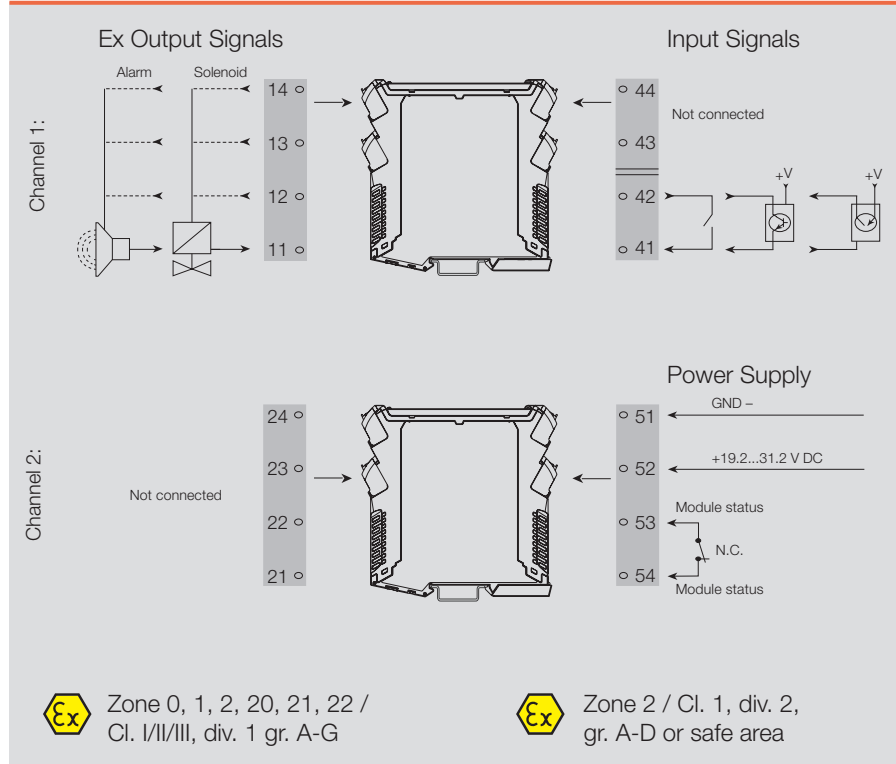
ACT20X

Solenoid driver for ignition protection group IIB, <60 mA

The ACT20X-SDI-HDO solenoid driver has an input in the safe zone and an output in the Ex zone 0. This driver is suitable for switching solenoid valves or alarm transmitters.

B

Connection diagram: ACT20X-SDI-HDO, for ignition protection group IIB, <60 mA

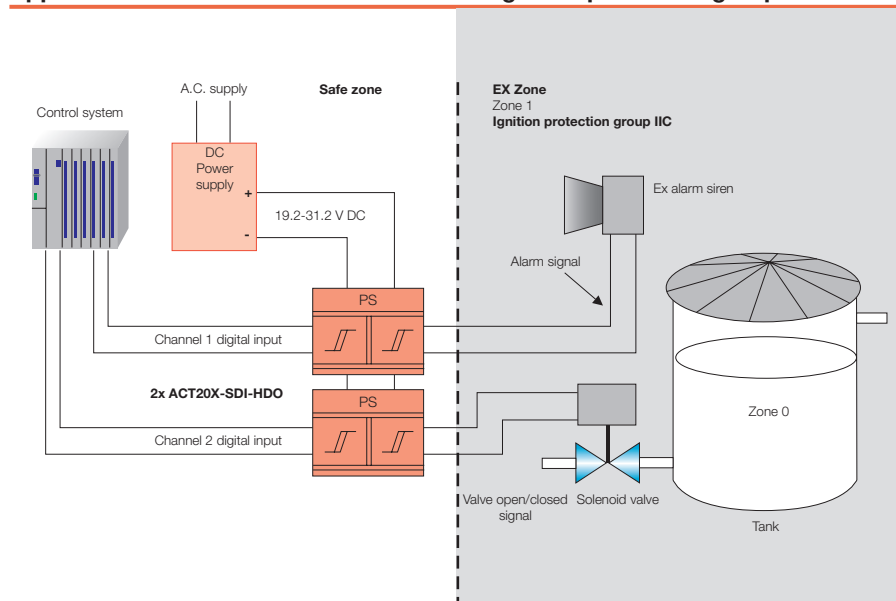


Ex label

| |
|--|
| ATEX |
| II 3 G Ex nA nC IIC T4 |
| II (1) G [Ex ia] IIC/II/IIA |
| II (1) D [Ex iaD] |
| IECEX |
| Ex nA nC IIC T4 Gc |
| [Ex ia Ga] IIC/II/IIA |
| [Ex ia Da] IIIC |
| FM |
| Installation in CL I DIV2 GP A-D T4 |
| Protects Ex circuits, in compliance with |
| Cl. I-III ABT 1/2 GP A-G or |
| Cl. I Zn2 AEx/Ex nA nC [ia] IIC T4. |

Note

Application: Inflow control in Ex zone with ignition protection group IIB



Output data: Solenoid driver for ignition protection group IIC (< 60 mA)

| Connection terminal | | | |
|---------------------|----------------|--------------------------|----------------|
| Channel 1 | U without load | U with load | I max |
| 11-12 | Min. 24 V | Min. 9 V Min. 11.5 V | 60 mA 50 mA |
| 11-13 | Min. 24 V | Min. 12.5 V Min. 10 V | 60 mA 50 mA |
| 11-14 | Min. 24 V | Min. 11 V Min. 13 V | 60 mA 50 mA |

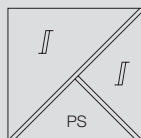
Note

Solenoid driver

- The solenoid driver controls intrinsically safe valves, LEDs, acoustic alarms, etc.
- PC configuration with FDT/DTM software, download at www.weidmueller.com
- Output current is limited to 60 mA for gas group IIB
- Relay output for error alarm

ACT20X-SDI-HDO-H-S

For gas group IIB < 60 mA



Technical data

| Input | |
|---|---|
| Type | NPN, PNP switching signal |
| Input voltage | ≤ 28 V DC |
| Input resistance, voltage | 3.5 kΩ |
| Triggerlevel low | ≤ 2.0 V DC (NPN), ≤ 8.0 V DC (PNP) |
| Triggerlevel high | ≥ 4.0 V DC (NPN), ≥ 10V DC (PNP) |
| Alarm output | |
| Type | Relay, 1 NO (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 / 1 A DC (safe area, Zone 2) |
| Power rating | ≤ 62.5 V AC / 32 W (safe area) |
| | ≤ 16 VA / 32 W (Zone 2) |
| General data | |
| Supply voltage | 19...31.2 V DC |
| Power consumption | ≤ 3 W (2 channels) |
| Tightening torque, min. / Tightening torque, max. | 0.4 Nm / 0.6 Nm |
| Ambient temperature / Storage temperature | -20 °C...+60 °C / -20 °C...+85 °C |
| Approvals | |
| Approvals | cULus; CE; ATEX; IECEX; FM |
| Insulation coordination | |
| Insulation voltage | 2.6 kV (input / output) |
| Rated voltage | 300 V |
| EMC standards | DIN EN 61326 |
| Data for Ex applications (ATEX) | |
| Voltage U ₀ | 28 V DC |
| Current I ₀ | ≤ 110 mA |
| Power P ₀ | ≤ 0.77 W |

| Dimensions | |
|--|-----------------|
| Clamping range (nominal / min. / max.) | mm ² |
| Length x width x height | mm |
| Note | |

| Screw connection | |
|------------------|----------------------|
| | 2.5 / 0.5 / 2.5 |
| | 119.2 / 22.5 / 113.6 |

Ordering data

| Type | Qty. | Order No. |
|--------------------------|------|------------|
| 1-channel version | | |
| ACT20X-SDI-HDO-H-S | 1 | 8965410000 |

CBX200 USB configuration interface - 8978580000