

# Door controls / electrical accessories

for ELEKTROMATEN comply to ATEX

ATEX door controls by GfA are designed for the special requirements of potentially explosive atmospheres. Depending on the version, they may be used inside (ⓘ) or outside (Ⓜ/Ⓜ) the Ex area.

## All door controls supplied with:

- Mains switch/isolator
- Motor overload protection
- Settings via selector switch with digital display
- Change of rotating direction from control panel push buttons
- Status and information display
- Cycle counter
- Maintenance cycle counter: 1.000 - 99.000 cycles
- Supply voltage:  
3-230 V, PE / 3N-400 V, PE / 3-400 V, PE
- Operating frequency: 50 Hz / 60 Hz
- Control voltage: 24 V DC
- Mains supply ratings for external devices:  
24 V DC (0,35 A) / 230 V AC (1,6 A)
- Without connection cable



## To be used inside the Ex area

### 1 Door control TS 971-ATEX II 2 G/D

- ⓘ II 2(1)G Ex db eb [ia Ga] IIC T6 Gb / II 2(1)D Ex tb [ia Ga] IIIC T85°C Db
- Selectable operating mode: Hold-to-run / Self-hold
- Explosion proof housing with a window
- Integrated OPEN-STOP-CLOSE push-button
- Evaluator for a safety edge system with 8k2 resistor and zener barrier integrated
- Slack rope / pass door switch contact available by integrated zener barrier
- Integrated switch device for photo cell detection
- Permissible temperature range: -5 °C...+40 °C

## To be used outside the Ex area

### Applicable to both door controls:

- Slack rope / pass door switch contact available by integrated zener barrier  
ⓘ II 3 (1) G Ex nA [ia Ga] IIC/IIB T4 Gc / II (1) D [Ex ia Da] IIIC
- Permissible temperature range: -10 °C...+50 °C

### 2 Door control TS 971-Hold-to-run ATEX

- Selectable operating mode: Hold-to-run CLOSE / OPEN; Hold-to-run CLOSE / Self-hold OPEN

### 3 Door control TS 971-Automatic ATEX

- Selectable operating mode: Hold-to-run / Self-hold
- Evaluator for a safety edge system with 8k2 resistor and zener barrier integrated ⓘ II 3 (1) G Ex nA [ia Ga] IIC/IIB T4 Gc / II (1) D [Ex ia Da] IIIC
- Integrated switch device for photo cell detection ⓘ II (1)G [Ex ia Ga] IIC / II (1)D [Ex iaDa] IIIC

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## Door controls: To be used inside the Ex area

Version	Part no.
<b>1 Door control TS 971-Automatic ATEX II 2 G/D</b> W x H x D: 338 mm x 540 mm x 228 mm; 27,9 kg; Part no. installation drawing: 50001985 Door control for KE 9.24 Ex-de T4 / SE 9.24 Ex-de T4 (motor protection switch: 0,9-1,25 A) Door control for all other ELEKTROMATEN Ex-e and Ex-de (motor protection switch: 1,0-4,0 A)	20003679.00002 20003679.00003

## Door controls: To be used outside the Ex area

Version	Part no.
<b>2 Door control TS 971-Hold-to-run ATEX, outside the Ex area</b> W x H x D: 250 mm x 375 mm x 188 mm; 5,9 kg; Part no. installation drawing: 50001979 Door control for KE 9.24 Ex-de T4 / SE 9.24 Ex-de T4 (motor protection switch: 0,9-1,25 A) Door control for all other ELEKTROMATEN Ex-e and Ex-de (motor protection switch: 1,0-4,0 A)	20003694.00002 20003694.00003
<b>3 Door control TS 971-Automatic ATEX, outside the Ex area</b> W x H x D: 375 mm x 375 mm x 188 mm; 8,4 kg; Part no. installation drawing: 50001978 Door control for KE 9.24 Ex-de T4 / SE 9.24 Ex-de T4 (motor protection switch: 0,9-1,25 A) Door control for all other ELEKTROMATEN Ex-e and Ex-de (motor protection switch: 1,0-4,0 A)	20003693.00002 20003693.00003

## Photo cell



Version	Part no.
Reflex photo cell Ex II 2G Ex ia op is IIC T4 Gb, 10 m range, incl. reflector and bracket, To be used with door control TS 971-Automatic ATEX (1/3) (detector integrated)	30005772

## Push-button



Version	Part no.
Three push button OPEN/STOP/CLOSE No. 51 aP (wall mounting) II 2 G Ex db eb IIC T6 Gb II 2 D Ex tb IIIC T80 °C Db W x H x D: 80 mm x 185 mm x 85 mm	40009665

## Mains switch



Version	Part no.
Mains switch 16 A, up to 690 V II 2 G Ex db eb IIC T6 Gb II 2 D Ex tb IIIC T80 °C Db W x H x D: 112 mm x 205 mm x 130 mm	40014087

## Accessories



Version	Part no.
Junction box II 2 G Ex ia ib IIC T6 Gb II 2 D Ex tb IIIC T80 °C Db Degree of protection IP66, Cable gland 3 x M20 x 1,5 W x H x D: 71 mm x 116 mm x 45 mm	40014675



Cable gland II 2 G Ex eb IIC Gb II 2 D Ex tb IIIC Db Degree of protection IP66, M16 x 1,5 M20 x 1,5	40013344 40013332
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