

Емкостные датчики 70-NPN-StEx-ATEX, 80-PNP-StEx-ATEX

Технические характеристики

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Capacitive Sensors

Series 70 - NPN - StEx- ATEX

Series 80 - PNP - StEx - ATEX

Housing M 30 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Sensing distance 3...25 mm adjustable

DMT 01 ATEX E 157	IECEX BVS 07.0015
Ex II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db



QuattroE_{IC}Protect™

Technical data

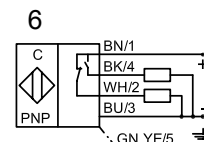
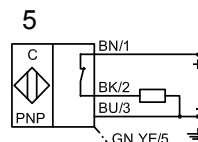
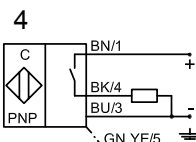
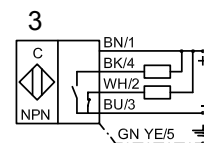
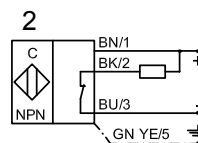
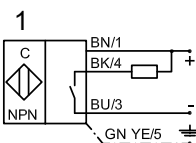
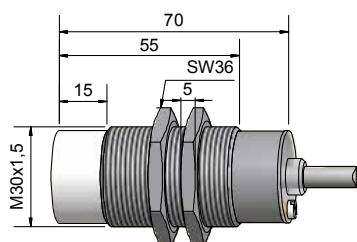
Non-flush mountable

Operating distance S_n	15 mm
Operating distance min. / max. adjustable	3...25 mm
Electrical version	4-wire DC
Output function	Antivalent
Type NPN	KAS-70-A24-A-StEx
Art.-No.	KA 0085
Connection diagram No.	3
Type PNP	KAS-80-A24-A-StEx
Art.-No.	KA 0084
Connection diagram No.	6
Operating voltage (U_B)	10...30 V DC
Output current max. (I_o)	2 x 150 mA
Voltage drop max. (U_o)	≤ 2.0 V
Permitted residual ripple max.	5 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	3 m, PVC, 5 x 0.34 mm ²
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts M 30

* With sealed potentiometer screw





Capacitive Sensors

Series 70 - NPN - StEx- ATEX

Series 80 - PNP - StEx - ATEX

Housing M 30 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- Sensing distance 3...25 mm adjustable
- With flange connector M 12 x 1, 5-pin incl. protective wire pin

DMT 01 ATEX E 157

IECEx BVS 07.0015

Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db

Ex ta/tb IIIC T101°C Da/Db



Quattro[®]Protect™

Technical data

Non-flush mountable

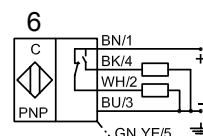
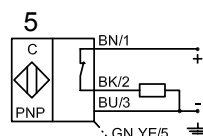
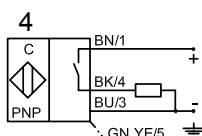
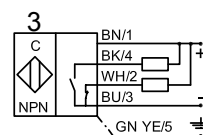
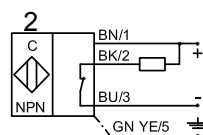
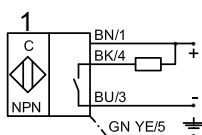
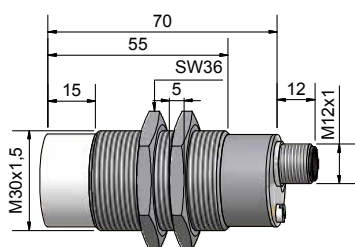
Operating distance S_n	15 mm
Operating distance min. / max. adjustable	3...25 mm
Electrical version	4-pin DC
Output function	Antivalent
Type NPN	KAS-70-A24-A-Y10-StEx
Art.-No.	KA 0863
Connection diagram No.	3
Type PNP	KAS-80-A24-A-Y10-StEx
Art.-No.	KA 0864
Connection diagram No.	6
Operating voltage (U_o)	10...30 V DC
Output current max. (I_o)	2 x 150 mA
Voltage drop max. (U_o)	≤ 2.0 V
Permitted residual ripple max.	5 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts M 30, Protective clip

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors

Series 70 - NPN - StEx- ATEX

Series 80 - PNP - StEx - ATEX

Housing M 32 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Sensing distance 3...30 mm adjustable

DMT 01 ATEX E 157	IECEX BVS 07.0015
Ex II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db

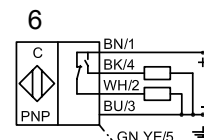
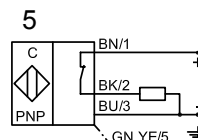
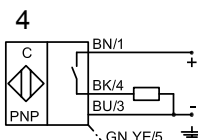
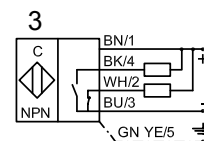
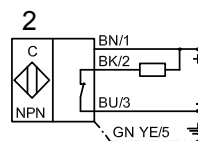
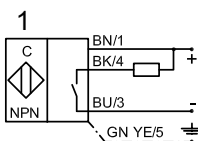
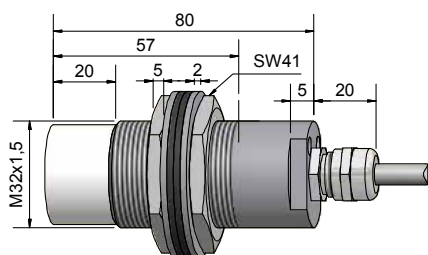


Quattro[®]Protect™

Technical data	Non-flush mountable	Non-flush mountable
Operating distance S_n	20 mm	20 mm
Operating distance min./max. adjustable	3...30 mm	3...30 mm
Electrical version	3-wire DC	4-wire DC
Output function	Normally open	Antivalent
Type NPN	KAS-70-35-S-M32-StEx	KAS-70-35-A-M32-StEx
Art.-No.	KA 0090	KA 0089
Connection diagram No.	1	3
Type PNP	KAS-80-35-S-M32-StEx	KAS-80-35-A-M32-StEx
Art.-No.	KA 0087	KA 0086
Connection diagram No.	4	6
Operating voltage (U_B)	10...30 V DC	10...30 V DC
Output current max. (I_o)	150 mA	2 x 150 mA
Voltage drop max. (U_o)	≤ 2.0 V	≤ 2.0 V
Permitted residual ripple max.	10 %	10 %
No-load current (I_o)	Typ. 15 mA	Typ. 15 mA
Frequency of operating cycles max.	50 Hz	50 Hz
Permitted ambient temperature	-20...+90 °C	-20...+90 °C
LED-display	Yellow	Green / yellow
Protective circuit	Built-in	Built-in
Degree of protection IEC 60529	IP 67*	IP 67*
Norm	EN 60947-5-2	EN 60947-5-2
Connection cable	3 m PVC, 4 x 0.75 mm ²	3 m, PVC, 5 x 0.34 mm ²
Housing material	VA No. 1.4305	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)	PTFE (FDA 21 CFR 177.1550)
Lid	VA No. 1.4305	VA No. 1.4305
Media optimized	Yes	

Accessories (is delivered with the unit) 2 pieces nuts M 32, 2 pieces grommets, 2 pieces o-rings

* With sealed potentiometer screw





Capacitive Sensors

Series 80 - PNP

Housing M 32 x 1.5

- Housing material: Stainless steel
- Sensing distance 1...40 mm adjustable
- II 3G EEx nA II T6 X, for use in zone 2
- II 3D IP67 T101° C X, for use in zone 22
- With flange connector M 12 x 1



Certificate:



Quattro^{ETC}Protect™

Technical data

Non-flush mountable

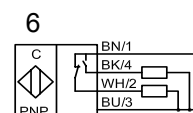
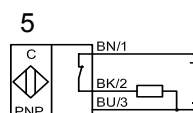
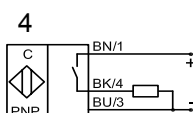
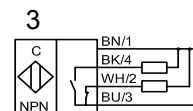
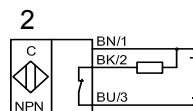
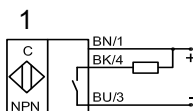
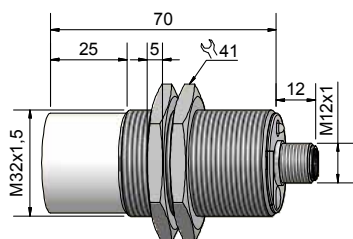
Operating distance S_n	25 mm
Operating distance min. / max. adjustable	1...40 mm
Electrical version	4-pin DC
Output function	Antivalent
Type NPN	
Art.-No.	
Connection diagram No.	
Type PNP	
KAS-80-34-A-M32-PTFE/V2A-Y5-3G-3D	
Art.-No.	
KA 0849	
Connection diagram No.	
6	
Operating voltage (U_B)	10...30 V DC
Output current max. (I_o)	2 x 200 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts M 32, Protective clip

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors

Series 80 - PNP

Housing M 32 x 1.5

- Housing material PPO
- Sensing distance 1...40 mm adjustable
- II 3G EEx nA II T6 X, for use in zone 2
- II 3D IP67 T101° C X, for use in zone 22
- With flange connector M 12 x 1



Certificate:



QuattroTM ProtectTM

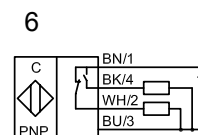
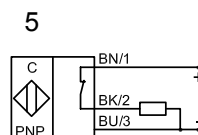
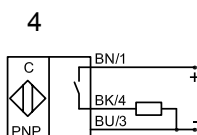
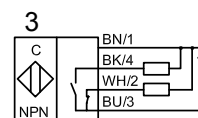
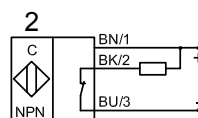
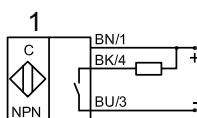
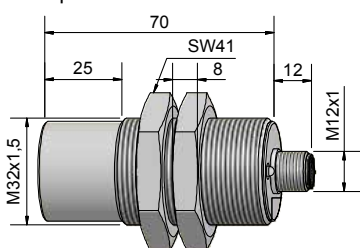
Technical data	Non-flush mountable
Operating distance S_n	25 mm
Operating distance min. / max. adjustable	1...40 mm
Electrical version	4-pin DC
Output function	Antivalent
Type NPN	
Art.-No.	
Connection diagram No.	
Type PNP	
KAS-80-35-A-M32-Y5-3G-3D	
Art.-No.	
KA 0610	
Connection diagram No.	
6	
Operating voltage (U_b)	10...30 V DC
Output current max. (I_o)	2 x 200 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1
Housing material	PPO
Active surface	PPO
Lid	PA / PPO
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts M 32, Protective clip

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors

Series 80 - PNP

Housing M 18 x 1

- Housing material: PTFE
- Ideal of detection of chemically aggressive media
- Suitable for food applications
- Sensing distance 0,5...10 mm adjustable
- II 3G EEx nA II T6 X, for use in zone 2
- II 3D IP67 T101° C X, for use in zone 22
- With flange connector M 12 x 1



Certificate:



Quattro^{ETC}Protect™

Technical data

Flush mountable

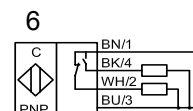
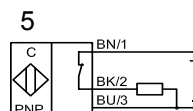
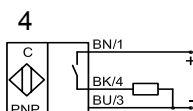
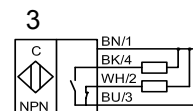
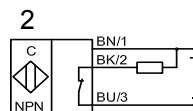
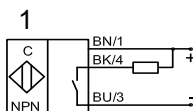
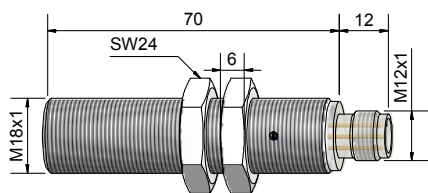
Operating distance S_n	5 mm
Operating distance min. / max. adjustable	0.5...10 mm
Electrical version	4-pin DC
Output function	Antivalent
Type NPN	
Art.-No.	
Connection diagram No.	
Type PNP	KAS-80-A13-A-K-PTFE-Y3-3G-3D
Art.-No.	KA 0799
Connection diagram No.	6
Operating voltage (U_B)	10...30 V DC
Output current max. (I_o)	2 x 200 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	300 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	Yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	-
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts M 18, Protective clip

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors

Series 80 - PNP

Housing M 18 x 1

- Housing material: Brass
- Sensing distance 0.5...15 mm adjustable
- II 3G EEx nA II T6 X, for use in zone 2
- II 3D IP67 T101° C X, for use in zone 22
- With flange connector M 12 x 1



Certificate:



Technical data

Non-flush mountable

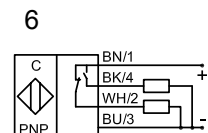
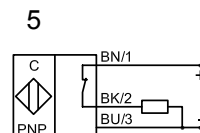
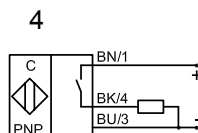
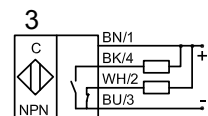
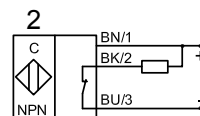
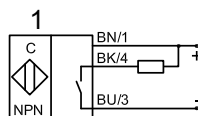
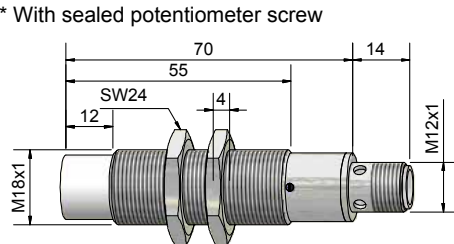
Operating distance S_n	8 mm
Operating distance min. / max. adjustable	0.5...15 mm
Electrical version	4-pin DC
Output function	Antivalent
Type NPN	
Art.-No.	
Connection diagram No.	
Type PNP	
KAS-80-A23-A-Y5-3G-3D	
Art.-No.	
KA 0527	
Connection diagram No.	
6	
Operating voltage (U_B)	10...30 V DC
Output current max. (I_e)	2 x 200 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10%
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	Yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1
Housing material	Brass
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	-
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts M 18, Protective clip

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors

Series 70 - NPN - StEx- ATEX

Series 80 - PNP - StEx - ATEX

Housing M 30 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Sensing distance 3...25 mm adjustable

DMT 01 ATEX E 157	IECEX BVS 07.0015
Ex II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db



QuattroE_{IC}Protect™

Technical data

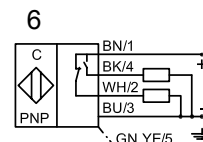
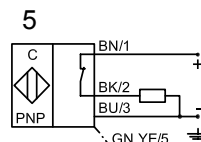
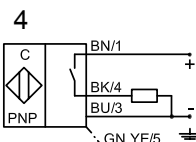
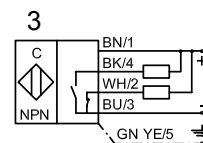
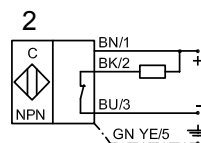
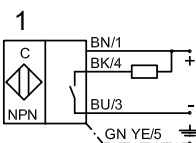
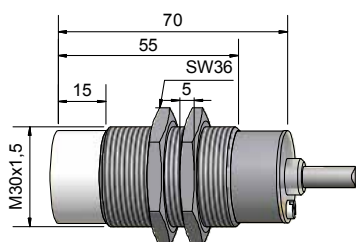
Non-flush mountable

Operating distance S_n	15 mm
Operating distance min. / max. adjustable	3...25 mm
Electrical version	4-wire DC
Output function	Antivalent
Type NPN	KAS-70-A24-A-StEx
Art.-No.	KA 0085
Connection diagram No.	3
Type PNP	KAS-80-A24-A-StEx
Art.-No.	KA 0084
Connection diagram No.	6
Operating voltage (U_B)	10...30 V DC
Output current max. (I_o)	2 x 150 mA
Voltage drop max. (U_o)	≤ 2.0 V
Permitted residual ripple max.	5 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	3 m, PVC, 5 x 0.34 mm ²
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts M 30

* With sealed potentiometer screw





Capacitive Sensors

Series 70 - NPN - StEx- ATEX

Series 80 - PNP - StEx - ATEX

Housing M 30 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- Sensing distance 3...25 mm adjustable
- With flange connector M 12 x 1, 5-pin incl. protective wire pin

DMT 01 ATEX E 157

IECEx BVS 07.0015

Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db

Ex ta/tb IIIC T101°C Da/Db



Quattro[®]Protect™

Technical data

Non-flush mountable

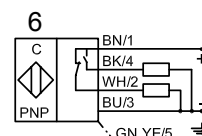
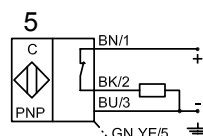
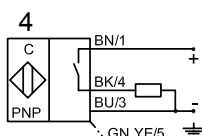
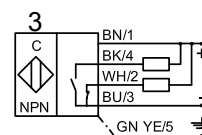
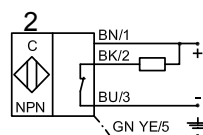
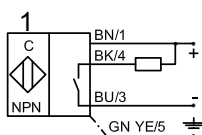
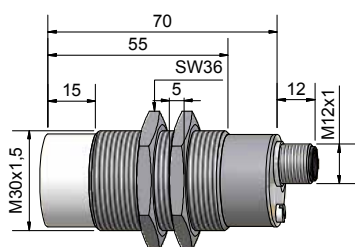
Operating distance S_n	15 mm
Operating distance min. / max. adjustable	3...25 mm
Electrical version	4-pin DC
Output function	Antivalent
Type NPN	KAS-70-A24-A-Y10-StEx
Art.-No.	KA 0863
Connection diagram No.	3
Type PNP	KAS-80-A24-A-Y10-StEx
Art.-No.	KA 0864
Connection diagram No.	6
Operating voltage (U_o)	10...30 V DC
Output current max. (I_o)	2 x 150 mA
Voltage drop max. (U_o)	≤ 2.0 V
Permitted residual ripple max.	5 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts M 30, Protective clip

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors

Series 70 - NPN - StEx- ATEX

Series 80 - PNP - StEx - ATEX

Housing M 32 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Sensing distance 3...30 mm adjustable

DMT 01 ATEX E 157	IECEX BVS 07.0015
Ex II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db

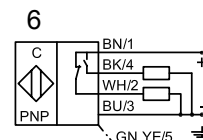
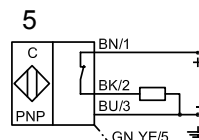
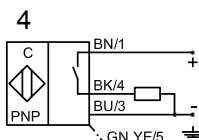
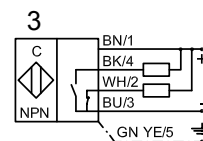
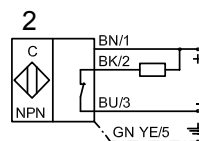
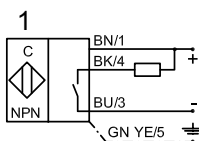
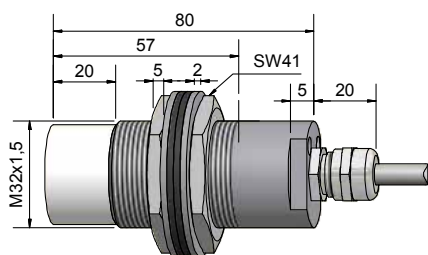


QuattroE_{IC}Protect™

Technical data	Non-flush mountable	Non-flush mountable
Operating distance S_n	20 mm	20 mm
Operating distance min./max. adjustable	3...30 mm	3...30 mm
Electrical version	3-wire DC	4-wire DC
Output function	Normally open	Antivalent
Type NPN	KAS-70-35-S-M32-StEx	KAS-70-35-A-M32-StEx
Art.-No.	KA 0090	KA 0089
Connection diagram No.	1	3
Type PNP	KAS-80-35-S-M32-StEx	KAS-80-35-A-M32-StEx
Art.-No.	KA 0087	KA 0086
Connection diagram No.	4	6
Operating voltage (U_B)	10...30 V DC	10...30 V DC
Output current max. (I_o)	150 mA	2 x 150 mA
Voltage drop max. (U_o)	≤ 2.0 V	≤ 2.0 V
Permitted residual ripple max.	10 %	10 %
No-load current (I_o)	Typ. 15 mA	Typ. 15 mA
Frequency of operating cycles max.	50 Hz	50 Hz
Permitted ambient temperature	-20...+90 °C	-20...+90 °C
LED-display	Yellow	Green / yellow
Protective circuit	Built-in	Built-in
Degree of protection IEC 60529	IP 67*	IP 67*
Norm	EN 60947-5-2	EN 60947-5-2
Connection cable	3 m PVC, 4 x 0.75 mm ²	3 m, PVC, 5 x 0.34 mm ²
Housing material	VA No. 1.4305	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)	PTFE (FDA 21 CFR 177.1550)
Lid	VA No. 1.4305	VA No. 1.4305
Media optimized	Yes	

Accessories (is delivered with the unit) 2 pieces nuts M 32, 2 pieces grommets, 2 pieces o-rings

* With sealed potentiometer screw





Capacitive Sensors Series 80 - PNP - StEx - ATEX

Housing M 32 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Sensing distance 3...30 mm adjustable

DMT 01 ATEX E 157	IECEX BVS 07.0015
II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db



Quattro^{ELC}Protect™

Technical data

Non-flush mountable

Operating distance S_n	20 mm
Operating distance min. / max. adjustable	3...30 mm
Electrical version	4-wire DC
Output function	Antivalent

Type NPN

Art.-No.

Connection diagram No.

Type PNP

KAS-80-34-A-M32-StEx

Art.-No.

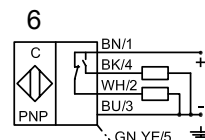
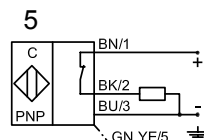
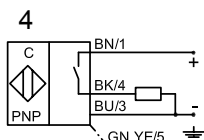
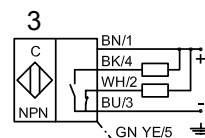
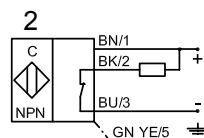
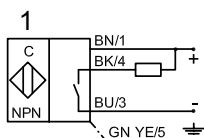
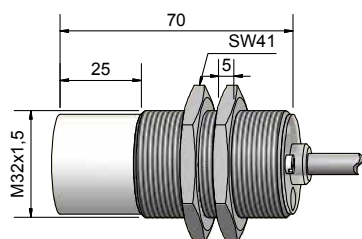
KA 0356

Connection diagram No.	6
Operating voltage (U_B)	10...30 V DC
Output current max. (I_o)	2 x 150 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	3 m, PVC, 5 x 0.34 mm ²
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts M 32

* With sealed potentiometer screw





Capacitive Sensors Series 80 - PNP - StEx - ATEX

Housing M 32 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- Sensing distance 3...30 mm adjustable
- With flange connector M 12 x 1, 5-pin incl. protective wire pin

DMT 01 ATEX E 157

IECEx BVS 07.0015

Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db

Ex ta/tb IIIC T101°C Da/Db



QuattroE_{MC}Protect™

Technical data

Non-flush mountable

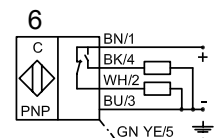
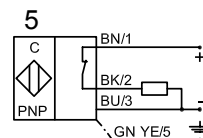
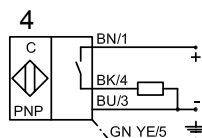
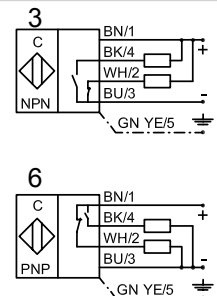
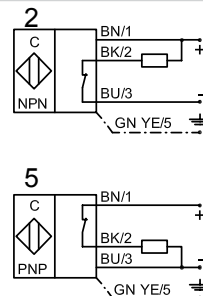
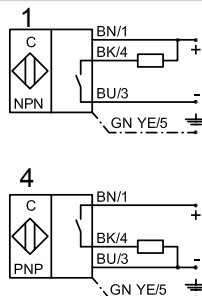
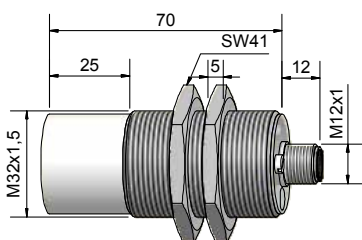
Operating distance S_n	20 mm
Operating distance min./max. adjustable	3...30 mm
Electrical version	4-pin DC
Output function	Antivalent
Type NPN	
Art.-No.	
Connection diagram No.	
Type PNP	
Art.-No.	
Connection diagram No.	
Operating voltage (U_B)	
Output current max. (I_e)	
Voltage drop max. (U_o)	
Permitted residual ripple max.	
No-load current (I_o)	
Frequency of operating cycles max.	
Permitted ambient temperature	
LED-display	
Protective circuit	
Degree of protection IEC 60529	
Norm	
Connection	
Housing material	
Active surface	
Lid	
Media optimized	

Accessories (is delivered with the unit)

2 pieces nuts M 32, Protective clip

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors Series 80 - PNP - StEx - ATEX

Housing M 32 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Housing material: PTFE
- Sensing distance 3...30 mm adjustable

DMT 01 ATEX E 157	IECEX BVS 07.0015
II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db



Quattro^{ELC}Protect™

Technical data

Non-flush mountable

Operating distance S_n	20 mm
Operating distance min. / max. adjustable	3...30 mm
Electrical version	4-wire DC
Output function	Antivalent

Type NPN

Art.-No.

Connection diagram No.

Type PNP

KAS-80-35-A-K-M32-PTFE-StEx

Art.-No.

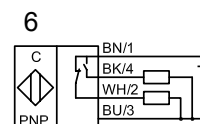
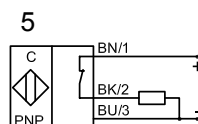
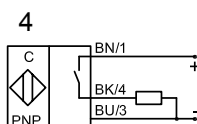
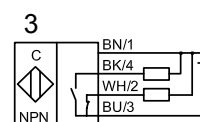
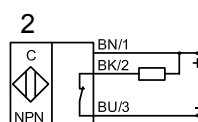
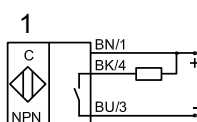
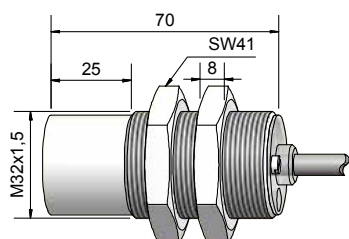
KA 0093

Connection diagram No.	6
Operating voltage (U_B)	10...30 V DC
Output current max. (I_o)	2 x 150 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	5 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	3 m, PVC, 4 x 0.5 mm ²
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts M 32

* With sealed potentiometer screw





Capacitive Sensors Series 80 - PNP - StEx - ATEX

Housing M 32 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- Housing material: PTFE
- Sensing distance 3...30 mm adjustable
- With flange connector M 12 x 1

DMT 01 ATEX E 157

IECEX BVS 07.0015

Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db

Ex ta/tb IIIC T101°C Da/Db



Quattro^{EX}Protect™

Technical data

Non-flush mountable

Operating distance S_n	20 mm
Operating distance min. / max. adjustable	3...30 mm
Electrical version	4-pin DC
Output function	Antivalent

Type NPN

Art.-No.

Connection diagram No.

Type PNP

KAS-80-35-A-K-M32-PTFE-Y5-StEx

Art.-No.

KA 0867

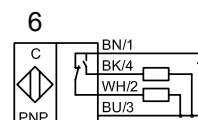
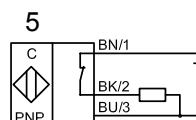
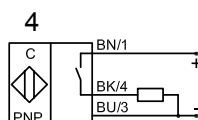
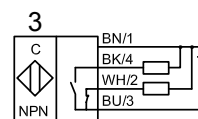
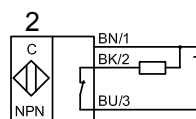
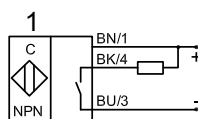
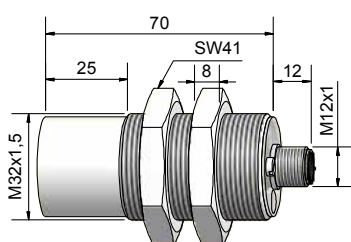
Connection diagram No.	6
Operating voltage (U_B)	10...30 V DC
Output current max. (I_o)	2 x 150 mA
Voltage drop max. (U_o)	≤ 2.0 V
Permitted residual ripple max.	5 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts M 32, Protective clip

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors Series 80 - PNP - StEx - ATEX

Housing G 1"

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Sensing distance 3...30 mm adjustable

DMT 01 ATEX E 157	IECEX BVS 07.0015
II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db



Quattro^{ELC}Protect™

Technical data

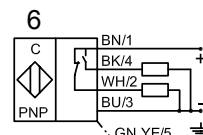
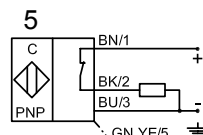
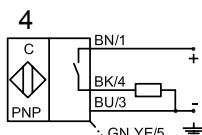
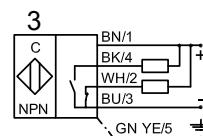
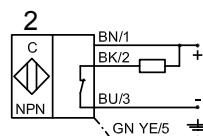
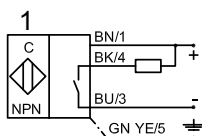
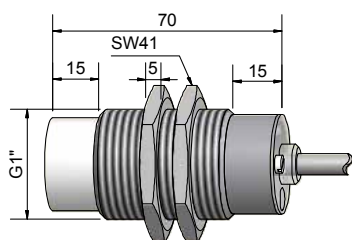
Non-flush mountable

Operating distance S_n	20 mm
Operating distance min. / max. adjustable	3...30 mm
Electrical version	4-wire DC
Output function	Antivalent
Type NPN	
Art.-No.	
Connection diagram No.	
Type PNP	
Art.-No.	
KAS-80-34-A-G1"-StEx	
KA 0092	
Connection diagram No.	
6	
Operating voltage (U_B)	10...30 V DC
Output current max. (I_o)	2 x 150 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	5 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	3 m, PVC, 5 x 0.34 mm ²
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts G 1"

* With sealed potentiometer screw





Capacitive Sensors Series 80 - PNP - StEx - ATEX

Housing G 1"

- For use in areas with the risk of dust explosion, zone 20
- Sensing distance 3...30 mm adjustable
- With flange connector M 12 x 1, 5-pin incl. protective wire pin

DMT 01 ATEX E 157

IECEX BVS 07.0015

Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db

Ex ta/tb IIIC T101°C Da/Db



QuattroE_{IC}Protect™

Technical data

Non-flush mountable

Operating distance S_n	20 mm
Operating distance min. / max. adjustable	3...30 mm
Electrical version	4-pin DC
Output function	Antivalent

Type NPN

Art.-No.

Connection diagram No.

Type PNP

KAS-80-34-A-G1"-Y10-StEx

Art.-No.

KA 0868

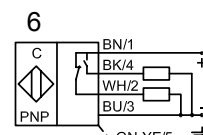
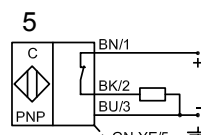
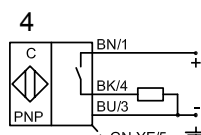
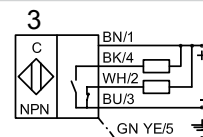
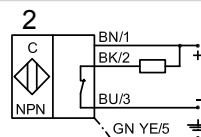
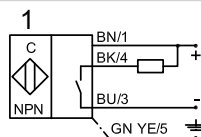
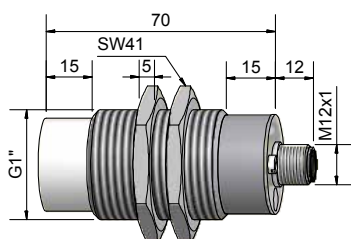
Connection diagram No.	6
Operating voltage (U_B)	10...30 V DC
Output current max. (I_e)	2 x 150 mA
Voltage drop max. (U_o)	≤ 2.0 V
Permitted residual ripple max.	5 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts G 1", Protective clip

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors Series 80 - PNP

Housing Tri-Clamp

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Housing material: Stainless steel VA No. 1.4404 / AISI 316L
- Sensing distance 3...30 mm adjustable

DMT 01 ATEX E 157

IECEX BVS 07.0015

Ex II 2 G Ex mb IIC T4 Gb

Ex mb IIC T4 Gb

Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db

Ex ta/tb IIIC T101°C Da/Db



Technical data

Non-flush mountable

Operating distance S_n

20 mm

Operating distance min. / max. adjustable

3...30 mm

Electrical version

4-wire DC

Output function

Antivalent (NO + NC)

Type PNP

KAS-80-35/100-A-Tri-PTFE/VA-StEx

Art.-No.

KA 0377

Connection diagram No.

6

Operating voltage (U_B)

10...35 V DC

Voltage drop max. (U_d)

≤ 2.0 V

Permitted residual ripple max.

10 %

Operating current (I_o)

2 x 0...150 mA

No-load current (I_o)

Typ. 15 mA

Frequency of operating cycles max.

50 Hz

Permitted ambient temperature

-25...+90 °C

LED-display

Green / yellow

Protective circuit

Built-in

Degree of protection IEC 60529

IP 67

Norm

EN 60947-5-2

Connection cable

3 m, PVC, 5 x 0,34 mm²

Housing material

Stainless steel VA No. 1.4404 / AISI 316L

Active surface

PTFE (FDA 21 CFR 177.1550)

Lid

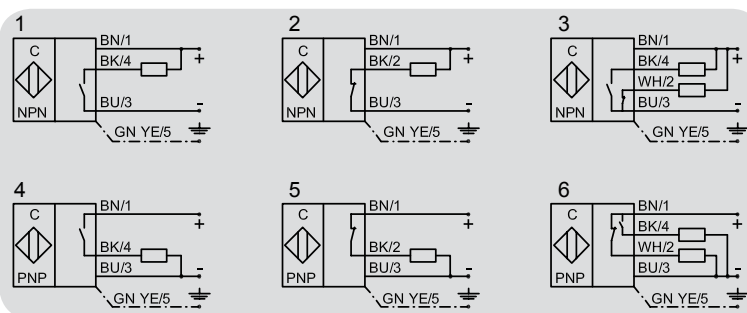
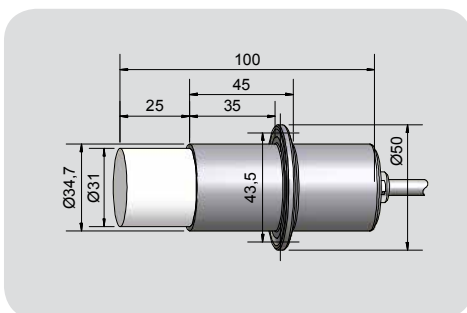
PC (FDA 21 CFR 177.1580)

Media optimized

Yes

Accessories (not delivered with the sensor): Stainless steel welding nipple DN 25 # 190751, Sealing gasket # 190752, Triclamp mounting clamp # 190750 please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors Series 80 - PNP

Housing Tri-Clamp

- For use in areas with the risk of dust explosion, zone 20
- Housing material: Stainless steel VA No. 1.4404 / AISI 316L
- Sensing distance 3...30 mm adjustable
- With flange connector M 12 x 1, 5-pin incl. protective wire pin

DMT 01 ATEX E 157

IECEx BVS 07.0015

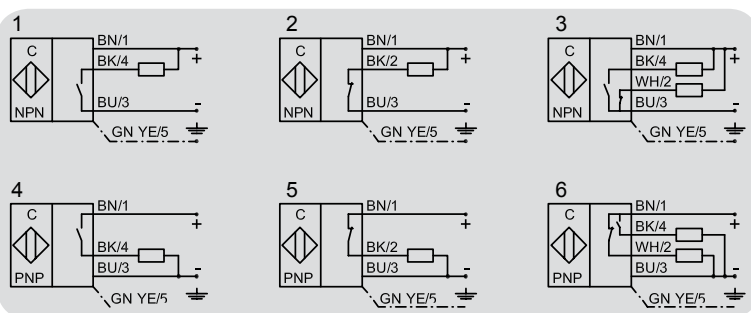
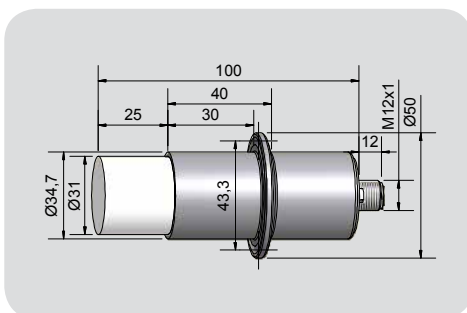
Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db

Ex ta/tb IIIC T101°C Da/Db



Technical data	Non-flush mountable
Operating distance S_n	20 mm
Operating distance min. / max. adjustable	3...30 mm
Electrical version	4-pin DC
Output function	Antivalent (NO + NC)
Type PNP	KAS-80-35/100-A-Tri-PTFE/VA-Y10-StEx
Art.-No.	KA 0869
Connection diagram No.	6
Operating voltage (U_B)	10...35 V DC
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I_a)	2 x 0...150 mA
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+90 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1
Housing material	Stainless steel VA No. 1.4404 / AISI 316L
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes
Accessories (delivered with the sensor)	Protective clip
Accessories (not delivered with the sensor): Stainless steel welding nipple DN 25 # 190751, Sealing gasket # 190752, Triclamp mounting clamp # 190750 and matching connectors please see our selection of accessories.	

* With sealed potentiometer screw





Capacitive sensors Series 70 - NPN - StEx - ATEX

Series 80 - PNP - StEx - ATEX

Housing Ø 26 mm / G 1" / 40 mm

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Housing material PTFE
- Sensing distance 0...20 mm adjustable
- Suitable for food and pharmaceutical applications
- With flange, sealing can be made with a gasket or PTFE-tape (not supplied with the sensor).

DMT 01 ATEX E 157	IECEX BVS 07.0015
Ex II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db



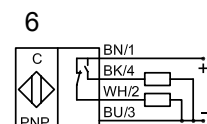
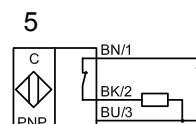
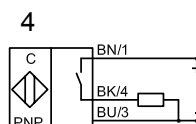
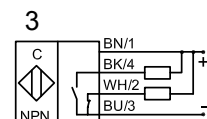
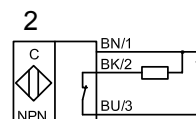
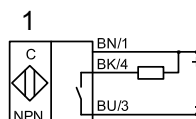
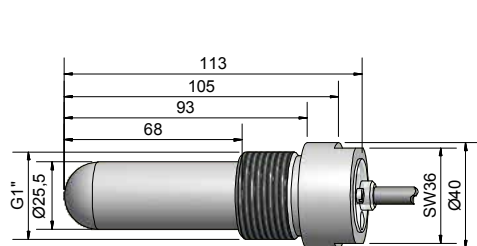
Quattro^{ETC}Protect™

Technical data

Non-flush mountable

Operating distance S_n	5 mm
Operating distance min. / max. adjustable	0...20 mm
Electrical version	4-wire DC
Output function	Antivalent
Type NPN	KAS-70-26-A-K-G1"-PTFE-StEx
Art.-No.	KA 0824
Connection diagram No.	3
Type PNP	KAS-80-26-A-K-G1"-PTFE-StEx
Art.-No.	KA 0264
Connection diagram No.	6
Operating voltage (U_o)	10...30 V DC
Output current max. (I_o)	2 x 150 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20...+90 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0.5 mm ²
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes

* With sealed potentiometer screw





Capacitive sensors Series 80 - PNP - StEx - ATEX

Housing Ø 26 mm / G 1" / 40 mm

- For use in areas with the risk of dust explosion, zone 20
- Housing material PTFE
- Sensing distance 0...20 mm adjustable
- Suitable for food and pharmaceutical applications
- Special version with flange. Sealing can be made with a gasket or PTFE-tape (not supplied with the sensor)
- With flange connector m 12 x 1

DMT 01 ATEX E 157

IECEX BVS 07.0015

Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db

Ex ta/tb IIIC T101°C Da/Db



Quattro[®]Protect™

Technical data

Non-flush mountable

Operating distance S_n	5 mm
Operating distance min. / max. adjustable	0...20 mm
Electrical version	4-pin DC
Output function	Antivalent

Type NPN

Art.-No.

Connection diagram No.

Type PNP

KAS-80-26-A-K-G1"-PTFE-Y5-StEx

Art.-No.

KA 0655

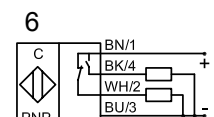
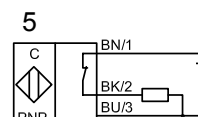
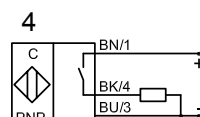
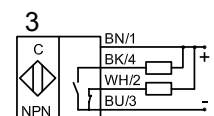
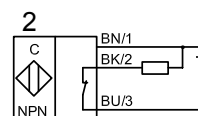
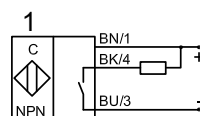
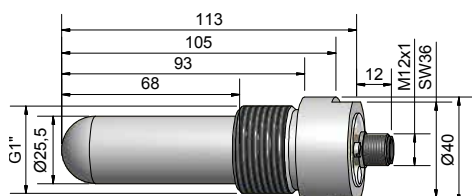
Connection diagram No.	6
Operating voltage (U_B)	10...30 V DC
Output current max. (I_e)	2 x 150 mA
Voltage drop max. (U_o)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20...+90 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes

Accessories (is delivered with the unit)

Protective clip

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw



По вопросам продаж и поддержки обращайтесь:

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Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
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Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
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