

Емкостные системы измерения уровня КФА-5-В, КФА-5-Л, КФА-5-ХЛ, КФА-5-ХХЛ

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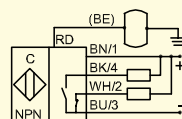
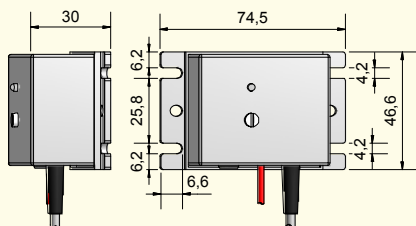
PERLeVeL Capacitive filling level evaluation unit - KFA
NPN output

- For capacitive filling level probes with 1 limit value switching point: KFS-51-"L"-15-Y55
- Operating voltage: 18...36 V DC



Technical data

Electrical version	4-wire DC
Output function	Antivalent
Type NPN	KFA-5-1-B-N-A-Z02-Y50
Art. No	AF 0005
Operating voltage (U_B)	18...36 V DC
Voltage drop max. (U_o)	$\leq 2,5$ V
Permitted residual ripple max.	25 %
Operating current (I_a)	2 x 0...250 mA
No-load current (I_o)	Typ. 50 mA
Switching frequency max.	4 Hz
Permitted ambient temperature	-25...+55 °C
LED-Display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 54
Norm	EN 60947-5-2
Connection cable	2 m, PUR, 4 x 0.14 mm ²
Housing material	PA





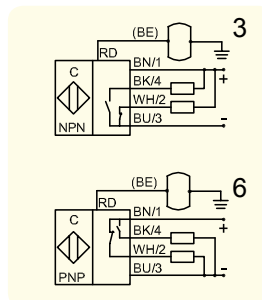
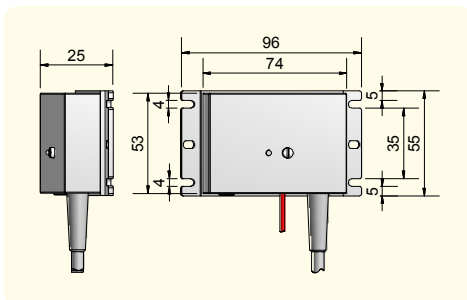
PER LeVeL Capacitive filling level evaluation unit - KFA
NPN output
PNP output

- For capacitive filling level probes with 1 limit value switching point:
KFS-51-"L"-15-Y55
- Operating voltage: 18...36 V DC



Technical data

Electrical version	4 wire DC
Output function	Antivalent
Type NPN	KFA-5-1-L-N-A-Z02-Y50
Art. No	AF 0068
Connection diagram No.	3
Type PNP	KFA-5-1-L-P-A-Z02-Y50
Art. No.	AF 0064
Connection diagram No.	6
Operating voltage (U_b)	18...36 V DC
Voltage drop max. (U_d)	≤ 2.5 V
Permitted ripple max.	25 %
Operating current (I_e)	2 x 0...250 mA
No-load current (I_o)	Typ. 75 mA
Switching frequency max.	4 Hz
Permitted ambient temperature	-25...+70 °C
LED display	Green / yellow
Protection circuit	Built-in
Degree of protection IEC 60529	IP 54
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0.34 mm ²
Housing material	PA



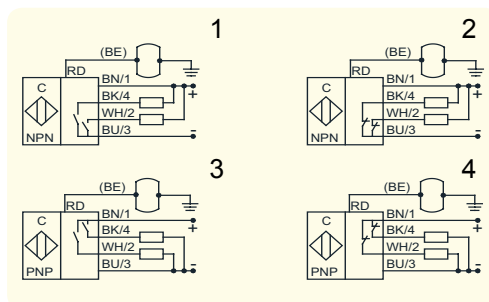
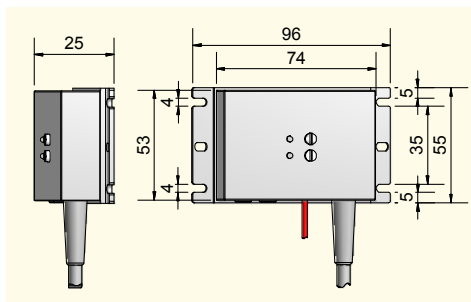


PERLeVeL Capacitive filling level evaluation unit - KFA
NPN output
PNP output

- For 2 capacitive filling level probes with 1 limit value switching point: KFS-51-"L"-15-Y55
- For 1 capacitive filling level probe with 2 limit value switching points KFS-52-"L"-15-X2-Y55
- Operating voltage: 18...36 V DC



Technical data		
Electrical version	4 wire DC	4 wire DC
Output function	Normally open	Normally closed
Type NPN	KFA-5-2-L-N-S-Z02-Y50	KFA-5-2-L-N-Ö-Z02-Y50
Art. No	AF 0066	AF 0067
Connection diagram No.	1	2
Type PNP	KFA-5-2-L-P-S-Z02-Y50	KFA-5-2-L-P-Ö-Z02-Y50
Art. No.	AF 0065	AF 0062
Connection diagram No.	3	4
Operating voltage (U_B)	18...36 V DC	18...36 V DC
Voltage drop max. (U_d)	≤ 2.5 V	≤ 2.5 V
Permitted ripple max.	25 %	25 %
Operating current (I_o)	2 x 0...250 mA	2 x 0...250 mA
No-load current (I_o)	Typ. 75 mA	Typ. 75 mA
Switching frequency max.	4 Hz	4 Hz
Permitted ambient temperature	-25...+70 °C	-25...+70 °C
LED display	Green / yellow	Green / yellow
Protection circuit	Built-in	Built-in
Degree of protection IEC 60529	IP 54	IP 54
Norm	EN 60947-5-2	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0.34 mm ²	2 m, PVC, 4 x 0.34 mm ²
Housing material	PA	PA





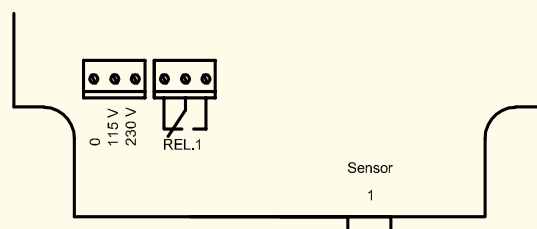
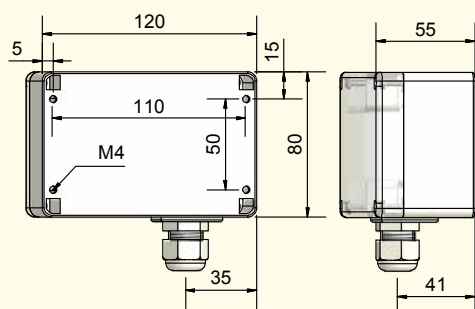
PER LeVeL Capacitive filling level evaluation unit - KFA
Relay output

- For connection of one capacitive level probes with 1 limit value switching point KFS-51-...-Y55
- Operating voltage 115 / 230 V AC
- With Combicon connection



Technical data

Output function	1 x change-over contact
Type	KFA-5-1-XL-I-CC-Y50
Art.-No.	AF 0101
Operating voltage (U_B)	105...125 / 207...253 AC 50 / 60 Hz
Contact rating each relay max.	Max. 120 V DC / 1 A-250 V AC / 4 A
Power consumption	Typ. 3 VA
Permitted ambient temperature	-25...+55 °C
LED-display	Green (U_B stand by)
LED-display	Static: green / red (full / empty)
Norm	EN 60947-5-2
Degree of protection IEC 60529	IP 54
Connection	Screwing clamp terminals and sockets
Housing material	ABS





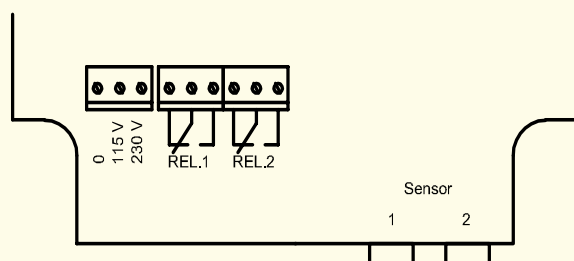
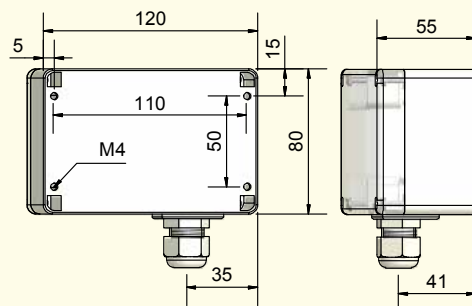
PERLeVeL Capacitive filling level evaluation unit - KFA
Relay output

- For capacitive filling level probes with 2 limit value switching points
KFS-52-...-Y55 or 2 probes with 1 limit value switching point
KFS-51-...-Y55
- Operating voltage 115 / 230 V AC
- With Combicon connection



Technical data

Output function	2 x change-over contact each channel
Type	KFA-5-2-XL-II-CC-Y50
Art.-No.	AF 0102
Operating voltage (U_B)	105...125 / 207...253 AC 50 / 60 Hz
Contact rating each relay max.	Max. 120 V DC / 1 A - 250 V AC / 4 A
Power consumption	Typ. 3 VA
Permitted ambient temperature	-25...+55 °C
LED-display	Green (U_B stand by)
LED-display	Static: green / red (full / empty)
Norm	EN 60947-5-2
Degree of protection IEC 60529	IP 54
Connection	Screwing clamp terminals and sockets
Housing material	ABS





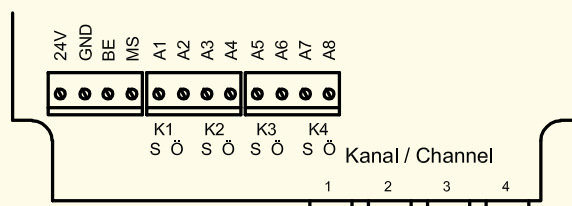
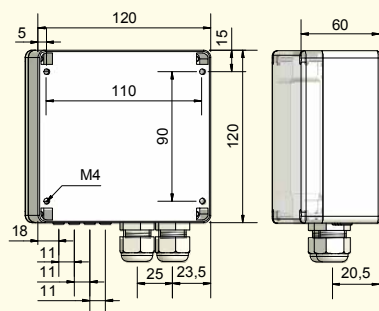
PER LeVeL Capacitive filling level evaluation unit - KFA
NPN output
PNP output

- For capacitive filling level probes with 1, 2, 3 or 4 limit value switching points KFS-5...-Y55
- Operating voltage 18...36 V DC
- With Combicon connection



Technical data

Output function	4 x antivalent
Type NPN	KFA-5-4-XXL-N-A-CC-Y50
Art. No	AF 0086
Type PNP	KFA-5-4-XXL-P-A-CC-Y50
Art. No.	AF 0063
Operating voltage (U_B)	18...36 V DC
Voltage drop max. (U_d)	≤ 2.5 V
Permitted residual ripple max.	25 %
Operating current (I_B)	0...250 mA each channel
No-load current (I_o)	Typ. 120 mA
Switching frequency max.	4 Hz
Permitted ambient temperature	-25... +55 °C
LED-Display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 54
Norm	EN 60947-5-2
Connection	Screwing clamp terminals and sockets
Housing material	ABS





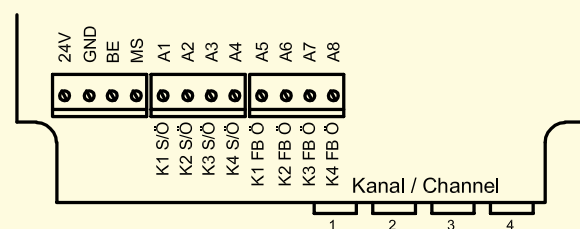
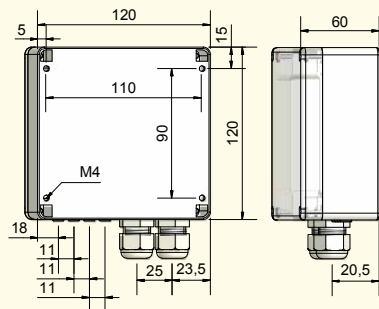
PER LeVeL Capacitive filling level evaluation unit - KFA
NPN Output
PNP Output

- For capacitive filling level probes with 1, 2 3 or 4 limit value switching points KFS-5...-Y55
- With sensor break control
- Operating voltage 18...36 V DC
- With Combicon connection



Technical data

Output function	4 x Normally open	4 x Normally closed
Type NPN	KFA-5-4-XXL-N-S-4FB-CC-Y50	KFA-5-4-XXL-N-Ö-4FB-CC-Y50
Art. No	AF 0091	AF 0090
Type PNP	KFA-5-4-XXL-P-S-4FB-CC-Y50	KFA-5-4-XXL-P-Ö-4FB-CC-Y50
Art. No.	AF 0046	AF 0089
Operating voltage (U_B)	18...36 V DC	18...36 V DC
Voltage drop max. (U_d)	≤ 2.5 V	≤ 2.5 V
Permitted residual ripple max.	25 %	25 %
Operating current (I_e)	0...250 mA each channel	0...250 mA each channel
No-load current (I_o)	Typ. 130 mA	Typ. 130 mA
Switching frequency max.	4 Hz	4 Hz
Permitted ambient temperature	-25...+55 °C	-25...+55 °C
LED-Display	Green / yellow	Green / yellow
Protective circuit	Built-in	Built-in
Degree of protection IEC 60529	IP 54	IP 54
Norm	EN 60947-5-2	EN 60947-5-2
Connection	Screwing clamp terminals and sockets	Screwing clamp terminals and sockets
Housing material	ABS	ABS





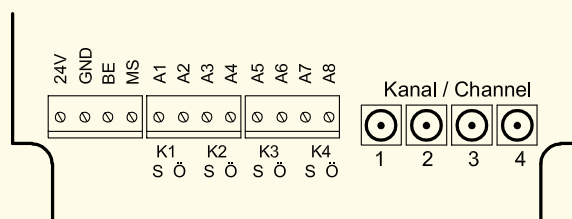
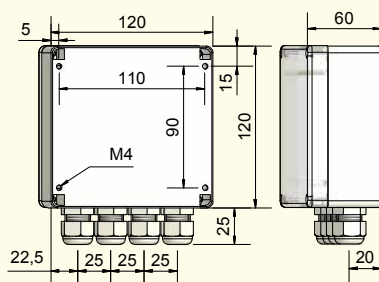
PER LeVeL Capacitive filling level evaluation unit - KFA
NPN Output
PNP Output

- For capacitive filling level probes with 1, 2 3 or 4 limit value switching points KFS-5...-Y75
- Operating voltage 18...36 V DC
- With Combicon connection



Technical data

Output function	4 x antivalent
Type NPN	KFA-5-4-XXL-N-A-CC-Y70
Art. No	AF 0096
Type PNP	KFA-5-4-XXL-P-A-CC-Y70
Art. No.	AF 0080
Operating voltage (U_B)	18...36 V DC
Voltage drop max. (U_d)	≤ 2.5 V
Permitted residual ripple max.	25 %
Operating current (I_o)	0...250 mA each channel
No-load current (I_o)	Typ. 120 mA
Switching frequency max.	4 Hz
Permitted ambient temperature	-25... +55 °C
LED-Display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 54
Norm	EN 60947-5-2
Connection	Screwing clamp terminals and sockets
Housing material	ABS





PER LeVeL Capacitive filling level evaluation unit - KFA

NPN Output

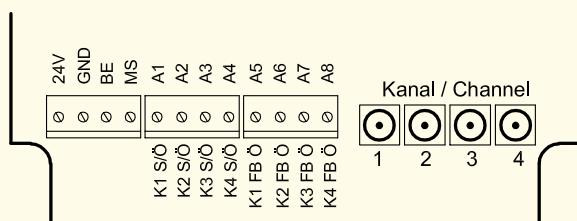
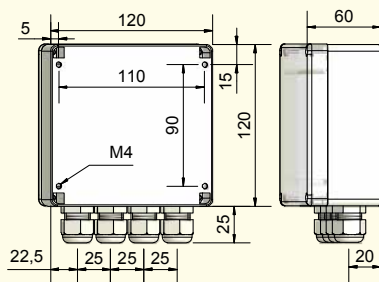
PNP Output

- For capacitive filling level probes with 1, 2, 3 or 4 limit value switching points KFS-5...-Y75
- With sensor break control
- Operating voltage 18...36 V DC
- With Combicon connection



Technical data

Output function	4 x normally open	4 x normally closed
Type NPN	KFA-5-4-XXL-N-S-4FB-CC-Y70	KFA-5-4-XXL-N-Ö-4FB-CC-Y70
Art. No	AF 0097	AF 0098
Type PNP	KFA-5-4-XXL-P-S-4FB-CC-Y70	KFA-5-4-XXL-P-Ö-4FB-CC-Y70
Art. No.	AF 0099	AF 0100
Operating voltage (U_B)	18...36 V DC	18...36 V DC
Voltage drop max. (U_d)	≤ 2.5 V	≤ 2.5 V
Permitted residual ripple max.	25 %	25 %
Operating current (I_o)	0...250 mA each channel	0...250 mA each channel
No-load current (I_o)	Typ. 130 mA	Typ. 130 mA
Switching frequency max.	4 Hz	4 Hz
Permitted ambient temperature	-25...+55 °C	-25...+55 °C
LED-Display	Green / yellow	Green / yellow
Protective circuit	Built-in	Built-in
Degree of protection IEC 60529	IP 54	IP 54
Norm	EN 60947-5-2	EN 60947-5-2
Connection	Screwing clamp terminals and sockets	Screwing clamp terminals and sockets
Housing material	ABS	ABS





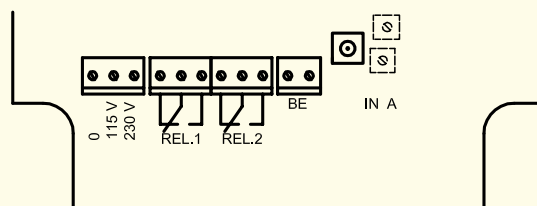
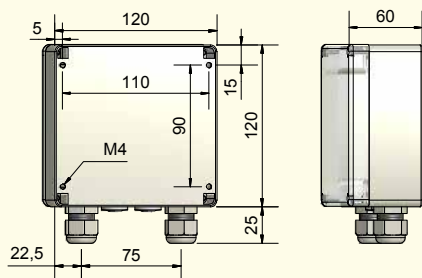
PER LeVeL Capacitive filling level evaluation unit - KFA
Relay output

- For connection of one capacitive level probes with 1 limit value switching point KFS-51-...-Y75
- Operating voltage 115 / 230 V AC
- With wire break control



Technical data

Output function	2 x change-over contact
Type	KFA-5-1-XXL-I-FB-KL-PG9
Art.-No.	972 210
Operating voltage (U_B)	105...125 / 207...253 AC 50 / 60 Hz
Contact rating each relay max.	Max. 120 V DC / 1 A - 250 V AC / 4 A
Power consumption	Typ. 3 VA
Permitted ambient temperature	-25...+55 °C
LED-display	Green (U_B stand by)
LED-display	Static: green / red (full / empty)
Wire break control	Green (flashing)
Norm	EN 60947-5-2
Degree of protection IEC 60529	IP 54
Connection	Screwing clamp terminals and sockets
Housing material	ABS





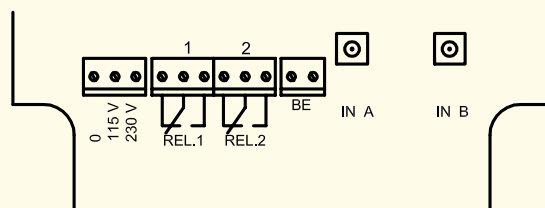
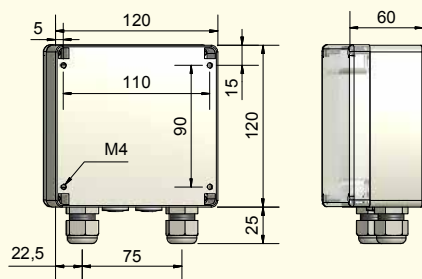
PERLeVeL Capacitive filling level evaluation unit - KFA Relay output

- For capacitive filling level probes with 2 limit value switching points
KFS-52-...-Y75 or 2 probes with 1 limit value switching point
- Operating voltage 115 / 230 V AC



Technical data

Output function	1 x change-over contact each channel
Type	KFA-5-2-XXL-II-KL-PG9
Art.-No.	AF 0049
Operating voltage (U_B)	105...125 / 207...253 AC 50 / 60 Hz
Contact rating each relay max.	Max. 120 V DC / 1 A - 250 V AC / 4 A
Power consumption	Typ. 3 VA
Permitted ambient temperature	-25...+55 °C
LED-display	Green (U_B stand by)
LED-display	Static: green / red (full / empty)
Protective circuit (over temperature)	Built-in
Norm	EN 60947-5-2
Degree of protection IEC 60529	IP 54
Connection	Screwing clamp terminals and sockets
Housing material	ABS



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