

# Емкостные датчики KAS-70-M12, KAS-80-M12

## Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37  
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Саранск (8342)22-96-24  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97  
Тверь (4822)63-31-35

Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Улан-Удэ (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

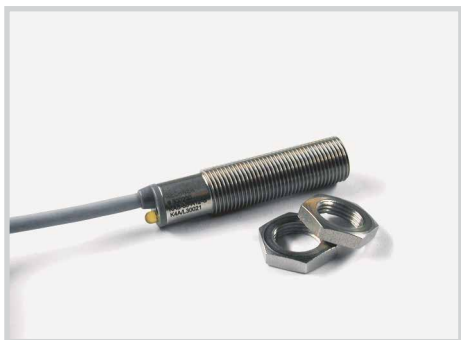
Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: [ret@nt-rt.ru](mailto:ret@nt-rt.ru) || сайт: <https://rechner.nt-rt.ru>



## Capacitive Sensors

Series 70 - NPN

Series 80 - PNP



Housing M 12 x 1

- Housing material: Stainless steel VA
- Sensing distance 0...6 mm adjustable

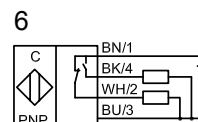
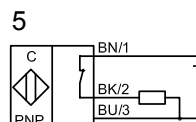
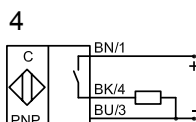
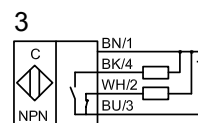
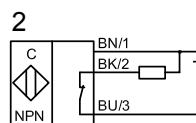
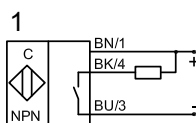
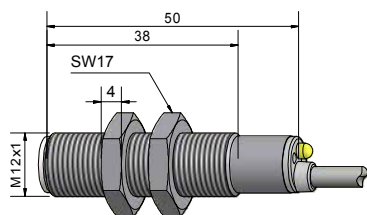
Certificate:



QuattroEtcProtect™

| Technical data                                    | Flush mountable                           | Flush mountable                           |
|---------------------------------------------------|-------------------------------------------|-------------------------------------------|
| Operating distance $S_n$                          | 2 mm                                      | 2 mm                                      |
| Operating distance min. / max. adjustable         | 0...6 mm                                  | 0...6 mm                                  |
| Electrical version                                | 3-wire DC                                 | 4-wire DC                                 |
| Output function                                   | Normally open                             | Antivalent                                |
| <b>Type NPN</b>                                   | <b>KAS-70-A12-A-M12-PTFE/Vab-Z02-1-HP</b> |                                           |
| <b>Art.-No.</b>                                   | <b>700 150</b>                            |                                           |
| Connection diagram No.                            | 3                                         |                                           |
| <b>Type PNP</b>                                   | <b>KAS-80-A12-S-M12-PTFE/Vab-Z02-1-HP</b> | <b>KAS-80-A12-A-M12-PTFE/Vab-Z02-1-HP</b> |
| <b>Art.-No.</b>                                   | <b>800 200</b>                            | <b>800 150</b>                            |
| Connection diagram No.                            | 4                                         | 6                                         |
| Operating voltage ( $U_B$ )                       | 10...35 V DC                              | 10...35 V DC                              |
| Output current max. ( $I_o$ )                     | 250 mA                                    | 2 x 250 mA                                |
| Voltage drop max. ( $U_d$ )                       | ≤ 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.                | 500 Hz                                    | 500 Hz                                    |
| Permitted ambient temperature                     | -25...+70 °C                              | -25...+70 °C                              |
| LED-display                                       | Green / 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                                  | 2 m, PUR, 3 x 0.14 mm <sup>2</sup>        | 2 m, PUR, 4 x 0.14 mm <sup>2</sup>        |
| 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                                               | PA / PPO                                  | PA / PPO                                  |
| Media optimized                                   | Yes                                       | Yes                                       |
| <b>Accessories</b> (is delivered with the sensor) | 2 nuts M 12                               | 2 nuts M 12                               |

\* With sealed potentiometer screw





## Capacitive Sensors

Series 70 - NPN

Series 80 - PNP



Housing M 12 x 1

- Housing material: Stainless steel VA
- Sensing distance 0...6 mm adjustable
- With flange connector M 12 x 1

Certificate:



### Technical data

Flush mountable

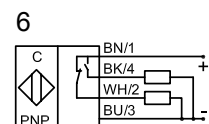
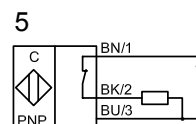
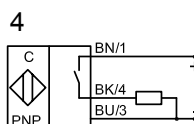
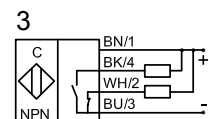
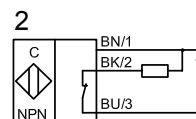
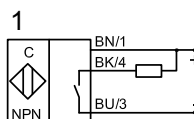
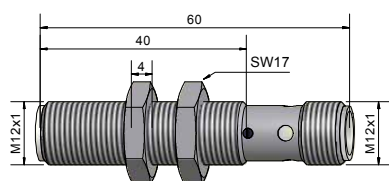
|                                           |                                          |
|-------------------------------------------|------------------------------------------|
| Operating distance $S_n$                  | 2 mm                                     |
| Operating distance min. / max. adjustable | 0...6 mm                                 |
| Electrical version                        | 4 pin DC                                 |
| Output function                           | Antivalent                               |
| <b>Type NPN</b>                           | <b>KAS-70-A12-A-M12-PTFE/VAb-Y5-1-HP</b> |
| <b>Art.-No.</b>                           | <b>700 724</b>                           |
| Connection diagram No.                    | 3                                        |
| <b>Type PNP</b>                           | <b>KAS-80-A12-A-M12-PTFE/VAb-Y5-1-HP</b> |
| <b>Art.-No.</b>                           | <b>800 724</b>                           |
| Connection diagram No.                    | 6                                        |
| Operating voltage ( $U_B$ )               | 10...35 V DC                             |
| Output current max. ( $I_o$ )             | 2 x 250 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.        | 500 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                          | VA No. 1.4305                            |
| Active surface                            | PTFE (FDA 21 CFR 177.1550)               |
| Lid                                       | -                                        |
| Media optimized                           | Yes                                      |

**Accessories** (is delivered with the sensor)

2 nuts M 12

For matching connectors please see our selection of accessories.

\* With sealed potentiometer screw





## Capacitive Sensors

### Series 80 - PNP

Housing M 12 x 1

- Housing material: PTFE
- Applicable for detection of chemical aggressive media
- Also suitable for food applications
- Sensing distance 0...6 mm adjustable



Certificate:



#### Technical data

Flush mountable

|                                           |            |
|-------------------------------------------|------------|
| Operating distance $S_n$                  | 2 mm       |
| Operating distance min. / max. adjustable | 0...6 mm   |
| Electrical version                        | 4-wire DC  |
| Output function                           | Antivalent |

#### Type NPN

Art.-No.

Connection diagram No.

#### Type PNP

KAS-80-A12-A-M12-PTFE-Z02-1-HP

Art.-No.

KA 0142

Connection diagram No.

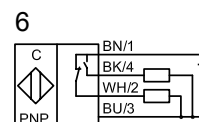
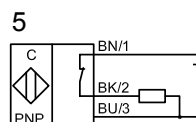
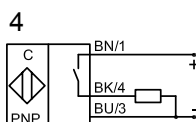
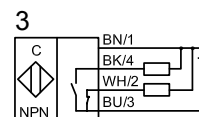
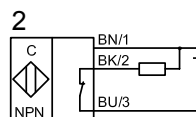
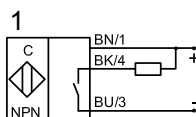
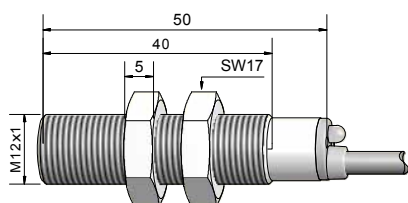
6

|                                    |                                    |
|------------------------------------|------------------------------------|
| Operating voltage ( $U_B$ )        | 10...35 V DC                       |
| Output current max. ( $I_o$ )      | 2 x 250 mA                         |
| Voltage drop max. ( $U_d$ )        | $\leq 2.0$ V                       |
| Permitted residual ripple max.     | 10 %                               |
| No-load current ( $I_o$ )          | Typ. 15 mA                         |
| Frequency of operating cycles max. | 500 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 cable                   | 2 m, PUR, 4 x 0.14 mm <sup>2</sup> |
| Housing material                   | PTFE (FDA 21 CFR 177.1550)         |
| Active surface                     | PTFE (FDA 21 CFR 177.1550)         |
| Lid                                | PA / PPO                           |
| Media optimized                    | Yes                                |

Accessories (is delivered with the sensor)

2 nuts M 12

\* With sealed potentiometer screw





## Capacitive Sensors

Series 70 - NPN

Series 80 - PNP



Housing M 12 x 1

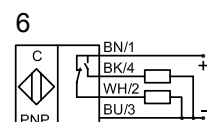
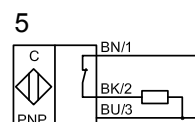
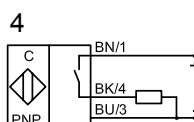
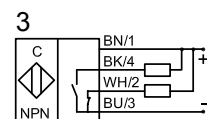
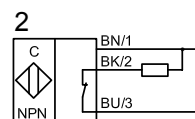
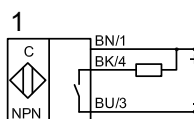
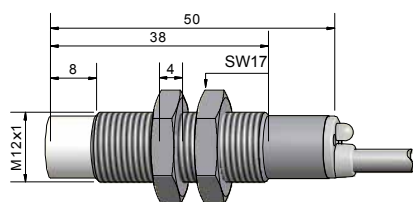
- Housing material: Stainless steel VA
- Sensing distance 0.5...10 mm adjustable

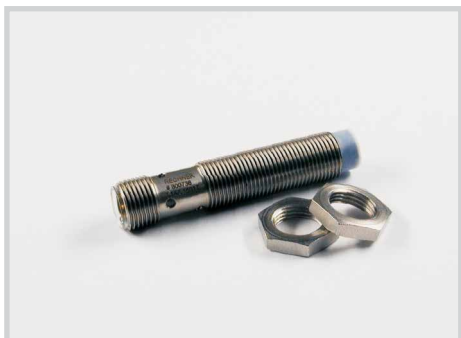
Certificate:



| Technical data                                    | Non-flush mountable                       | Non-flush mountable                       |
|---------------------------------------------------|-------------------------------------------|-------------------------------------------|
| Operating distance $S_n$                          | 4 mm                                      | 4 mm                                      |
| Operating distance min. / max. adjustable         | 0.5...10 mm                               | 0.5...10 mm                               |
| Electrical version                                | 3-wire DC                                 | 4-wire DC                                 |
| Output function                                   | Normally open                             | Antivalent                                |
| <b>Type NPN</b>                                   | <b>KAS-70-A22-A-M12-PTFE/VAb-Z02-1-HP</b> |                                           |
| <b>Art.-No.</b>                                   | <b>700 735</b>                            |                                           |
| Connection diagram No.                            | 3                                         |                                           |
| <b>Type PNP</b>                                   | <b>KAS-80-A22-S-M12-PTFE/VAb-Z02-1-HP</b> | <b>KAS-80-A12-A-M12-PTFE/VAb-Z02-1-HP</b> |
| <b>Art.-No.</b>                                   | <b>800 750</b>                            | <b>800 735</b>                            |
| Connection diagram No.                            | 4                                         | 6                                         |
| Operating voltage ( $U_b$ )                       | 10...35 V DC                              | 10...35 V DC                              |
| Output current max. ( $I_o$ )                     | 250 mA                                    | 2 x 250 mA                                |
| Voltage drop max. ( $U_d$ )                       | ≤ 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                     | -25...+70 °C                              | -25...+70 °C                              |
| LED-display                                       | Green / yellow                            | Green / yellow                            |
| Protective circuit                                | Built-in                                  | Built-in                                  |
| Degree of protection IEC 529                      | IP 67*                                    | IP 67*                                    |
| Norm                                              | EN 60947-5-2                              | EN 60947-5-2                              |
| Connection cable                                  | 2 m, PUR, 3 x 0.14 mm <sup>2</sup>        | 2 m, PUR, 4 x 0.14 mm <sup>2</sup>        |
| 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                                               | PA / PPO                                  | PA / PPO                                  |
| Media optimized                                   | Yes                                       | Yes                                       |
| <b>Accessories</b> (is delivered with the sensor) | 2 nuts M 12                               | 2 nuts M 12                               |

\* With sealed potentiometer screw





## Capacitive Sensors

### Series 80 - PNP

Housing M 12 x 1

- Housing material: Stainless steel VA
- Sensing distance 0.5...10 mm adjustable
- With flange connector M 12 x 1



Certificate:



#### Technical data

Non-flush mountable

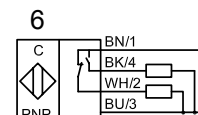
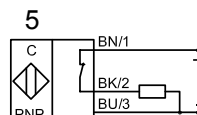
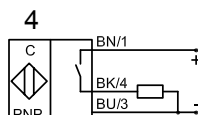
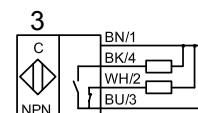
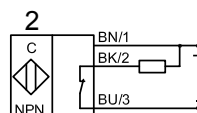
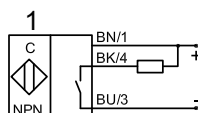
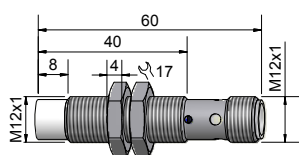
|                                           |                            |
|-------------------------------------------|----------------------------|
| Operating distance $S_n$                  | 4 mm                       |
| Operating distance min. / max. adjustable | 0.5...10 mm                |
| Electrical version                        | 4-pin DC                   |
| Output function                           | Antivalent                 |
| <b>Type NPN</b>                           |                            |
| <b>Art.-No.</b>                           |                            |
| Connection diagram No.                    |                            |
| <b>Type PNP</b>                           |                            |
| <b>KAS-80-A12-A-M12-PTFE/VAb-Y5-1-HP</b>  |                            |
| <b>Art.-No.</b>                           |                            |
| <b>800 736</b>                            |                            |
| Connection diagram No.                    | 6                          |
| Operating voltage ( $U_B$ )               | 10...35 V DC               |
| Output current max. ( $I_o$ )             | 2 x 250 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 529              | IP 67*                     |
| Norm                                      | EN 60947-5-2               |
| Connection                                | Flange connector M12 x 1   |
| Housing material                          | VA No. 1.4305              |
| Active surface                            | PTFE (FDA 21 CFR 177.1550) |
| Lid                                       | -                          |
| Media optimized                           | Yes                        |

**Accessories** (is delivered with the sensor)

2 nuts M 12

For matching connectors please see our selection of accessories.

\* With sealed potentiometer screw





## Capacitive Sensors Series 80 - PNP



Housing M 12 x 1

- Housing material: PTFE
- Ideal for detection of chemically aggressive media
- Also suitable for food applications
- Sensing distance 0.5...10 mm adjustable

Certificate:



### Technical data

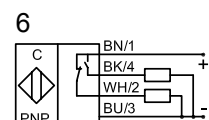
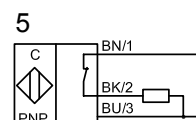
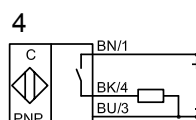
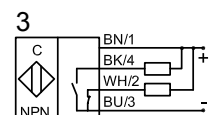
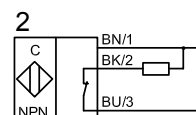
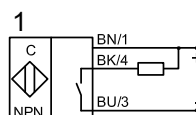
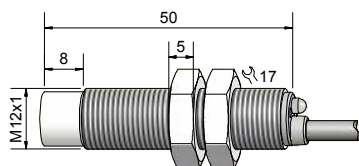
Non-flush mountable

|                                           |                                    |
|-------------------------------------------|------------------------------------|
| Operating distance $S_n$                  | 4 mm                               |
| Operating distance min. / max. adjustable | 0.5...10 mm                        |
| Electrical version                        | 4-wire DC                          |
| Output function                           | Antivalent                         |
| <b>Type NPN</b>                           |                                    |
| <b>Art.-No.</b>                           |                                    |
| Connection diagram No.                    |                                    |
| <b>Type PNP</b>                           |                                    |
| <b>KAS-80-A22-A-M12-PTFE-Z02-1-HP</b>     |                                    |
| <b>Art.-No.</b>                           |                                    |
| <b>800 745</b>                            |                                    |
| Connection diagram No.                    |                                    |
| 6                                         |                                    |
| Operating voltage ( $U_B$ )               | 10...35 V DC                       |
| Output current max. ( $I_o$ )             | 2 x 250 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 529              | IP 67*                             |
| Norm                                      | EN 60947-5-2                       |
| Connection cable                          | 2 m, PUR, 4 x 0.14 mm <sup>2</sup> |
| Housing material                          | PTFE (FDA 21 CFR 177.1550)         |
| Active surface                            | PTFE (FDA 21 CFR 177.1550)         |
| Lid                                       | PA / PPO                           |
| Media optimized                           | Yes                                |

**Accessories** (is delivered with the sensor)

2 nuts M 12

\* With sealed potentiometer screw



## По вопросам продаж и поддержки обращайтесь:

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