

Mini-sensors

Series SK 0300

- Housing starting at Ø 4 mm
- Flat disk shapes starting at Ø 18 mm
- Housing material V2A/PTFE
- Adjustment using sensor amplifiers 0400
- Sensor lead with plug



Type code (abstract)

SK sensor capacitive, w/o amplifier
SKF sensor cap., w/o amplifier, flexible
SK1 sensor capacitive, self-contained
SV(D) sensor amplifier (dynamic)
SNG sensor power pack

HT## high temperature use
IM pulse modulation technique (high noise immune)

/ FS(A) max sensing distance / Fill-level switch (adaptive)

M30 model and/or dimension

P output stage PNP, NPN, X (switchable)

B mounting B=flush

NB=non-flush

S S=N.O. O=N.C.

X=function switchable

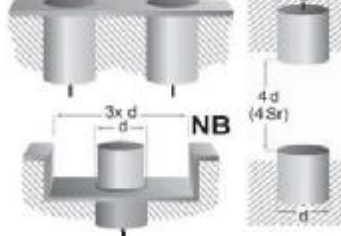
(C)PTFE Housing material, e.g. PTFE

CPTFE=complete PTFE

1M2-Y2 cable & connector:

Y2 = connector

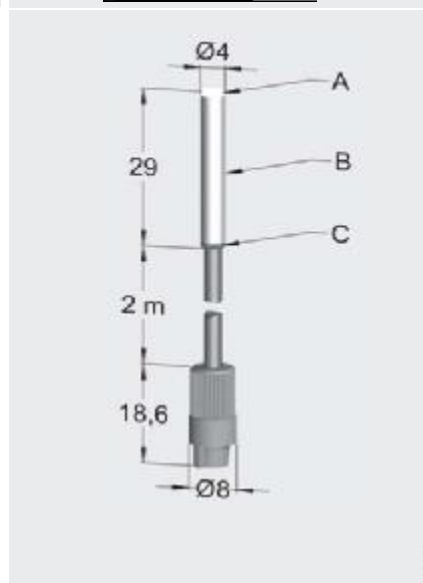
1M2 = 1.2m cable length



0,1...1



4Ø



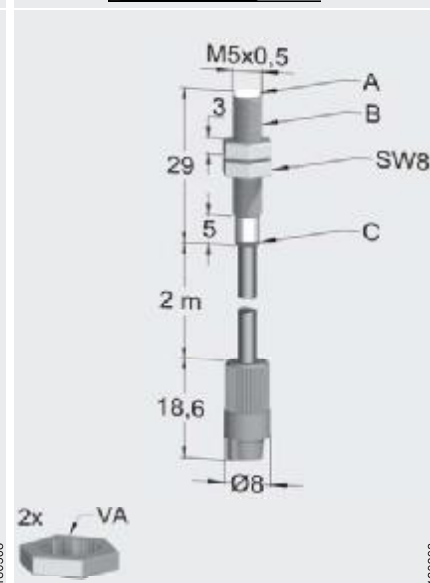
Typ / Type

SK-1-4-B-VA/PTFE

0,1...1



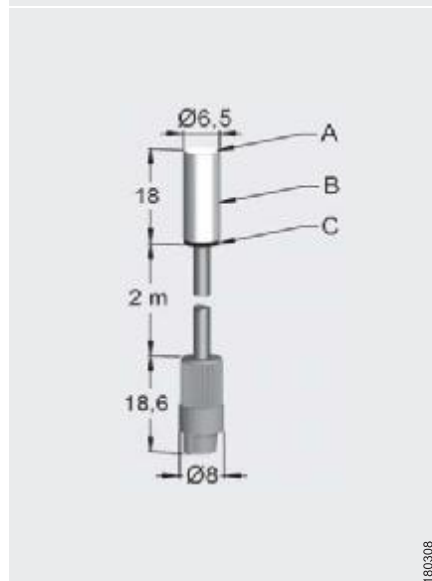
M5



Typ / Type

SK-1-M5-B-VA/PTFE

Mounting [flush / nonflush]	[B / NB]	B	B
Operating distance	Sn [mm]	0,1... 1	0,1... 1
Hysteresis	H [%SR]	20	20
Frequency of operating cycles	f [Hz]	100	100
Repeat accuracy	R [%SR]	2	2
Operating temperature range	Ta [C°]	-30... 80	-30... 80
Temperature drift [range]	[%SR]	20 [+5... 55]	20 [+5... 55]
Protection class		IP 67	IP67
Rated insulation voltage	Ui [V]	75 d. c.	75 d. c.
Material of housing		A: PTFE; B: V2A; C: POM	A: PTFE; B: V2A; C: POM
Utilisation category			
Connection		2m / 3x 0,14mm ² / PUR - ZA	2m / 3x 0,14mm ² / PUR - ZA
Supply voltage range UB	Ub [V]	4...8	4...8
No-load supply current	Iomax. [mA]		
Minimum operational current	Im [mA]		
Operational current	Ie [mA]		
Off-state current	Ir [mA]		
Voltage drop	Ud @ Ie [V]		
Time delay before availability	tv [ms]		
Indicator [UB / Output]			
Short circuit- overload-protection			
Reverse polarity protection			
Conformity	EMC EEC-direct.	IEC 60947-5-2 : 2004 73/23	IEC 60947-5-2 : 2004 73/23
EMC		IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 1.2-5.4 Mhz.	IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 1.6-5 Mhz.
Associated equipment		SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20	SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20
Additional functionality			
Application			

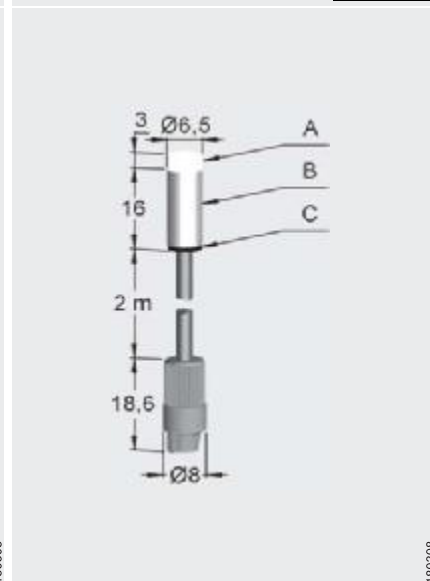


180308



Typ / Type

SK-1.5-6.5-B-VA/PTFE

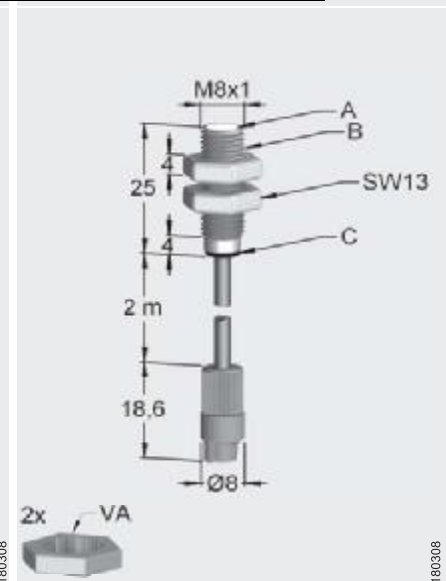


180308



Typ / Type

SK-3-6.5-NB-VA/PTFE



180308



Typ / Type

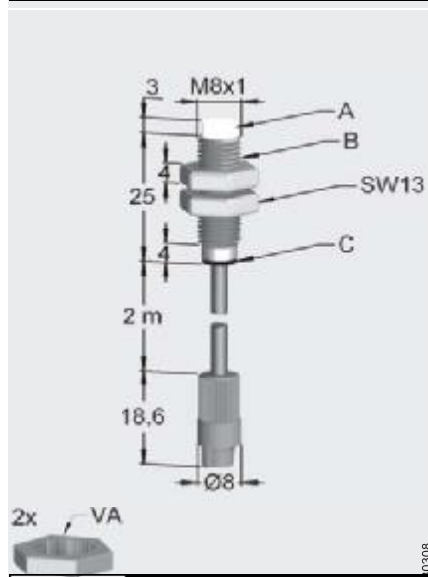
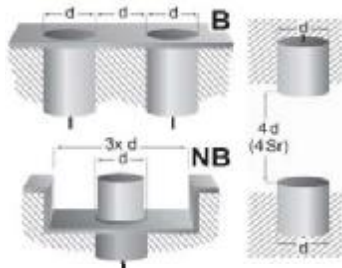
SK-1.5-M8-B-VA/PTFE

B	NB	B
0,1... 1,5	0,1... 3	0,1... 1,5
10	10	10
100	100	100
2	2	2
-30... 80	-30... 80	-30... 80
20 [-5... 55]	20 [-5... 55]	20 [-5... 55]
IP 67	IP 67	IP 67
75 d. c.	75 d. c.	75 d. c.
A: PTFE; B: V2A; C: POM	A: PTFE; B: V2A; C: POM	A: PTFE; B: V2A; C: POM
2m / 3x 0,14mm ² / PUR - ZA		
4...8	4...8	4...8

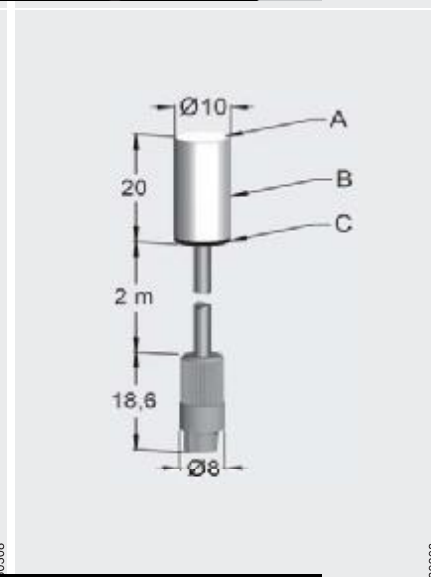
IEC 60947-5-2 : 2004
73/23IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.8-2.1 Mhz.
SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20IEC 60947-5-2 : 2004
73/23IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.7-2.8 Mhz.
SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20IEC 60947-5-2 : 2004
73/23IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.7-1.9 Mhz.
SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20

Type code (abstract)

SK	sensor capacitive, w/o amplifier
SKF	sensor cap., w/o amplifier, flexible
SK1	sensor capacitive, self-contained
SV(D)	sensor amplifier (dynamic)
SNG	sensor power pack
HT##	high temperature use
IM	pulse modulation technique (high noise immune)
## / FS(A)	max sensing distance / Fill-level switch (adaptive)
M30	model and/or dimension
P	output stage PNP, NPN, X (switchable)
B	mounting B=flush NB=non-flush
S	S=N.O. O=N.C. X=function switchable
(C)PTFE	Housing material, e.g. PTFE CPTFE=complete PTFE
1M2-Y2	cable & connector: Y# = connector 1M2 = 1.2m cable length

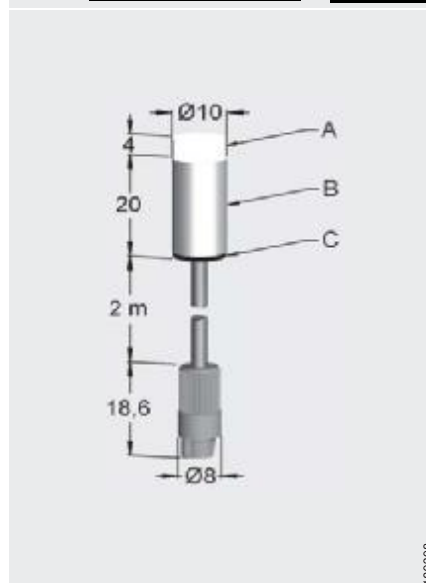


Typ / Type
SK-3-M8-NB-VA/PTFE

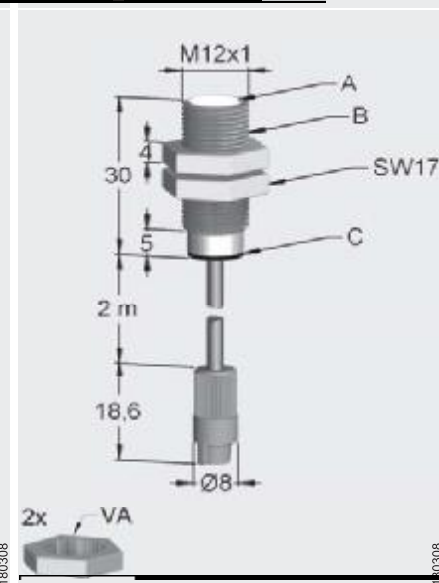


Typ / Type
SK-4-10-B-VA/PTFE

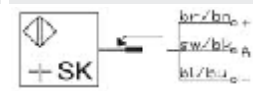
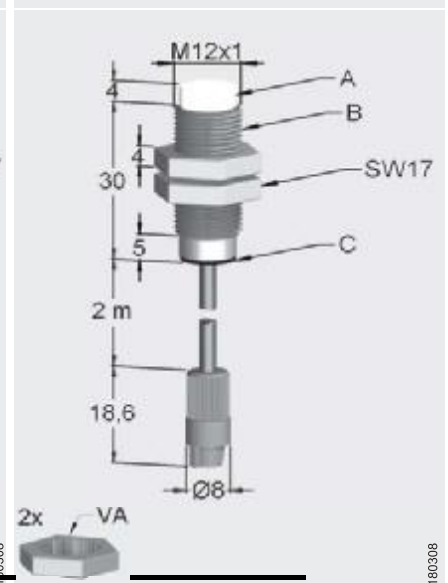
Mounting [flush / nonflush]	[B / NB]	NB	B
Operating distance	Sn [mm]	0,1... 3	0,1... 4
Hysteresis	H [%SR]	10	10
Frequency of operating cycles	f [Hz]	100	100
Repeat accuracy	R [%SR]	2	2
Operating temperature range	Ta [C°]	-30... 80	-30... 80
Temperature drift [range]	[%SR]	20 [-5... 55]	20 [-5... 55]
Protection class		IP 67	IP 67
Rated insulation voltage	Ui [V]	75 d. c.	75 d. c.
Material of housing		A: PTFE; B: V2A; C: POM	A: PTFE; B: V2A; C: POM
Utilisation category			
Connection		2m / 3x 0,14mm ² / PUR - ZA	2m / 3x 0,14mm ² / PUR - ZA
Supply voltage range UB	Ub [V]	4...8	4...8
No-load supply current	Iomax. [mA]		
Minimum operational current	Im [mA]		
Operational current	Ie [mA]		
Off-state current	Ir [mA]		
Voltage drop	Ud @ Ie [V]		
Time delay before availability	tv [ms]		
Indicator [UB / Output]			
Short circuit- overload-protection			
Reverse polarity protection			
Conformity	EMC EEC-direct.	IEC 60947-5-2 : 2004 73/23	IEC 60947-5-2 : 2004 73/23
EMC		IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.6-3.1 Mhz.	IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 1.1-3.1 Mhz.
Associated equipment		SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20	SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20
Additional functionality			
Application			



Typ / Type
SK-8-10-NB-VA/PTFE



Typ / Type
SK-4-M12-B-VA/PTFE



Typ / Type
SK-8-M12-NB-VA/PTFE

NB	B	NB
1... 8	0,1... 4	1... 8
10	10	10
100	100	100
2	2	2
-30... 80	-30... 80	-30... 80
20 [-5... 55]	20 [-5... 55]	20 [-5... 55]
IP 67	IP 67	IP 67
75 d.c.	75 d. c.	75 d. c.
A: PTFE; B: V2A; C: POM	A: PTFE; B: V2A; C: POM	A: PTFE; B: V2A; C: POM
2m / 3x 0,14mm ² / PUR - ZA	2m / 3x 0,14mm ² / PUR - ZA	2m / 3x 0,14mm ² / PUR - ZA
4...8	4...8	4...8

IEC 60947-5-2 : 2004
73/23

IEC 60947-5-2 : 2004
73/23

IEC 60947-5-2 : 2004
73/23

IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.7-3.8 Mhz.
SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20

IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.9-2.4 Mhz.
SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20

IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.7-3.5 Mhz.
SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20



Type code (abstract)

SK sensor capacitive, w/o amplifier
SKF sensor cap., w/o amplifier, flexible
SK1 sensor capacitive, self-contained
SV(D) sensor amplifier (dynamic)
SNG sensor power pack

HT## high temperature use
IM pulse modulation technique (high noise immune)

/ FS(A) max sensing distance / Fill-level switch (adaptive)

M30 model and/or dimension

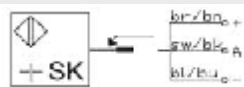
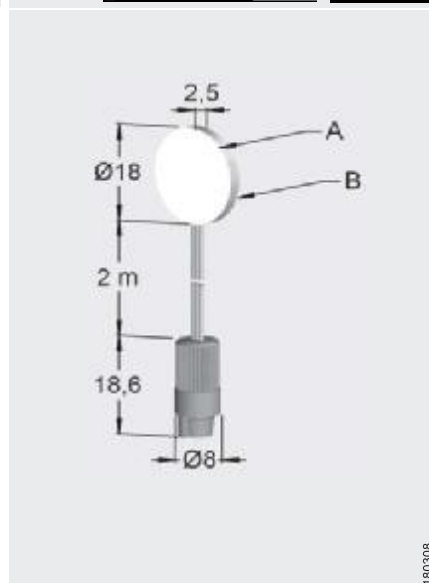
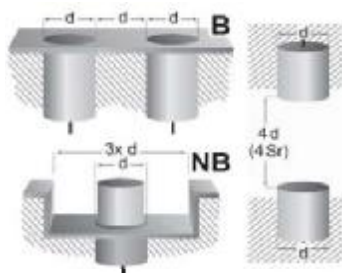
P output stage PNP, NPN, X (switchable)

B mounting B=flush
NB=non-flush

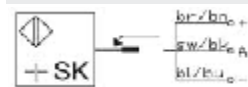
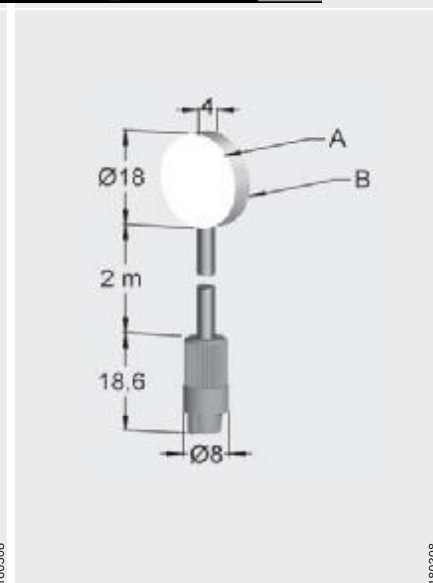
S S=N.O. Ø=N.C.
X=function switchable

(C)PTFE Housing material, e.g. PTFE
CPTFE=complete PTFE

1M2-Y2 cable & connector:
Y2 = connector
1M2 = 1.2m cable length

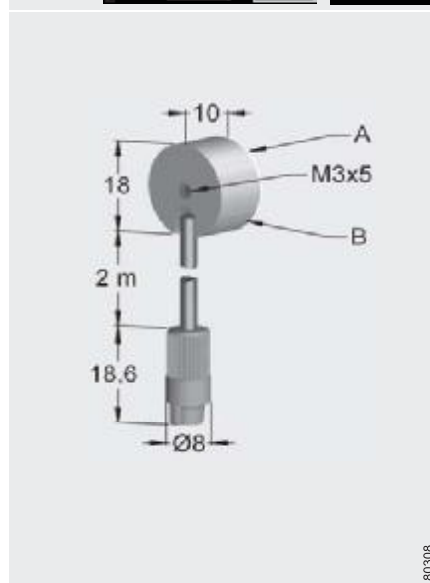


Typ / Type
SK-3-18/2.5-B-VA/PTFE

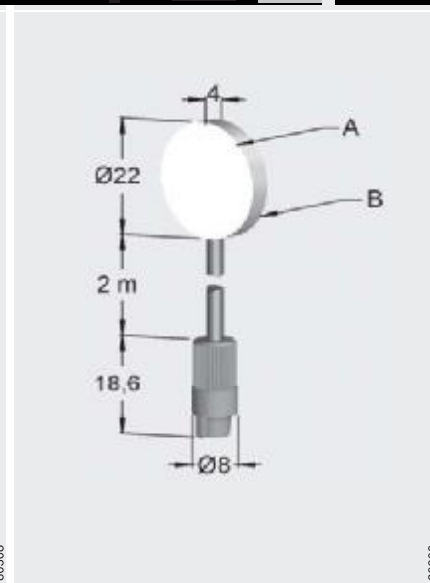


Typ / Type
SK-5-18/4-B-VA/PTFE

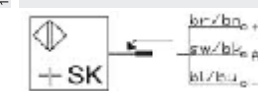
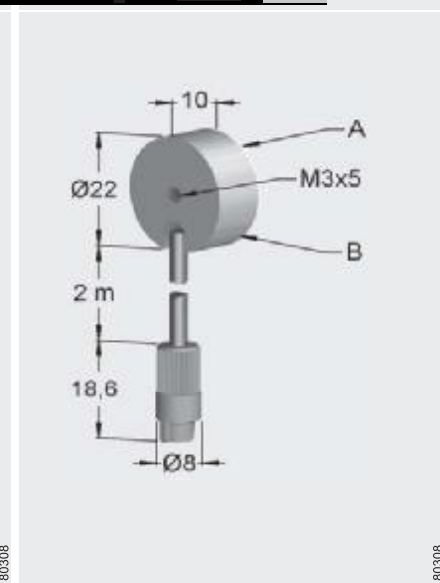
Mounting [flush / nonflush]	[B / NB]	B	B
Operating distance	Sn [mm]	0,1... 3	1... 5
Hysteresis	H [%SR]	15	15
Frequency of operating cycles	f [Hz]	100	100
Repeat accuracy	R [%SR]	2	2
Operating temperature range	Ta [C°]	-30... 70	-30... 80
Temperature drift [range]	[%SR]	20 [-5... 55]	20 [-5... 55]
Protection class		IP 66	IP 66
Rated insulation voltage	Ui [V]	75 d. c.	75 d. c.
Material of housing		A: PTFE; B: V2A	A: PTFE; B: V2A
Utilisation category			
Connection		2m / 3x 0,09mm ² / PVC - ZA	
Supply voltage range UB	Ub [V]	4...8	4...8
No-load supply current	Iomax. [mA]		
Minimum operational current	Im [mA]		
Operational current	Ie [mA]		
Off-state current	Ir [mA]		
Voltage drop	Ud @ Ie [V]		
Time delay before availability	tv [ms]		
Indicator [UB / Output]			
Short circuit- overload-protection			
Reverse polarity protection			
Conformity	EMC EEC-direct.	IEC 60947-5-2 : 2004 73/23	IEC 60947-5-2 : 2004 73/23
EMC		IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 2.9-6.9 Mhz.	IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.8-2.2 Mhz.
Associated equipment		SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20	SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20
Additional functionality			
Application			



Typ / Type
SK-5-18/10-B-VA/PTFE



Typ / Type
SK-10-22/4-B-VA/PTFE



Typ / Type
SK-10-22/10-B-VA/PTFE

B
1... 5
15
100
2
-30... 80
20 [-5... 55]
IP 66
75 d. c.
A: PTFE; B: VA
2m / 3x 0,14mm ² / PUR - ZA
4...8

IEC 60947-5-2 : 2004

IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.8-2.3 Mhz.
SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20

B
1... 10
15
100
2
-30... 80
20 [-5... 55]
IP 66
75 d. c.
A: PTFE; B: V2A
4...8

IEC 60947-5-2 : 2004

IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.4-2.1 Mhz.
SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20

B
1... 10
15
100
2
-30... 80
20 [-5... 55]
IP 66
75 d. c.
A:PTFE; B: VA
4...8

IEC 60947-5-2 : 2004

IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.3-1.9 Mhz.
SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20

Type code (abstract)

SK sensor capacitive, w/o amplifier
SKF sensor cap., w/o amplifier, flexible
SK1 sensor capacitive, self-contained
SV(D) sensor amplifier (dynamic)
SNG sensor power pack

HT## high temperature use
IM pulse modulation technique (high noise immune)

/ FS(A) max sensing distance / Fill-level switch (adaptive)

M30 model and/or dimension

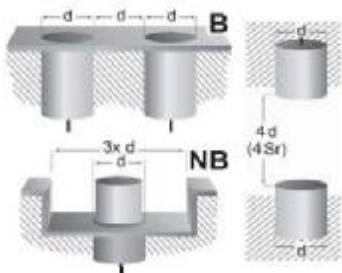
P output stage PNP, NPN, X (switchable)

B mounting B=flush
NB=non-flush

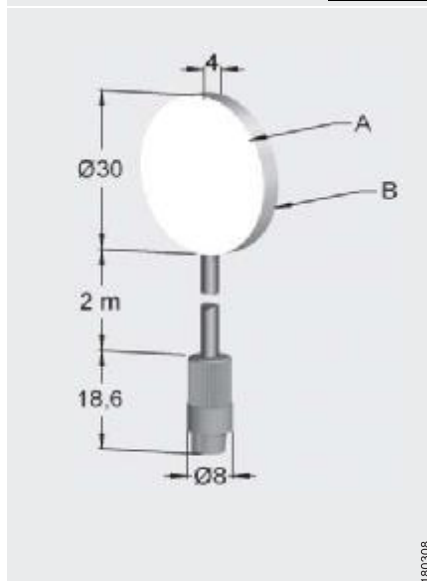
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X=function switchable

(C)PTFE Housing material, e.g. PTFE
CPTFE=complete PTFE

1M2-Y2 cable & connector:
Y# = connector
1M2 = 1.2m cable length



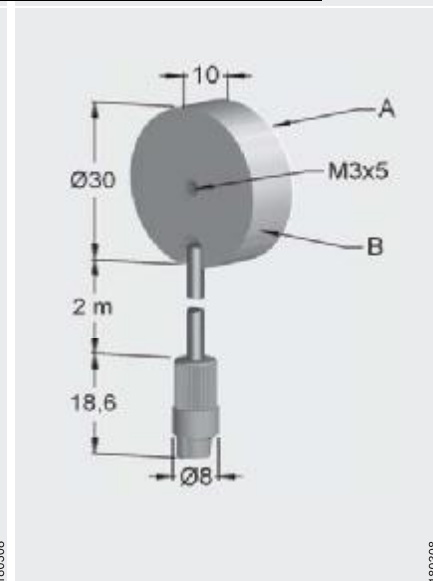
1..15



Typ / Type
SK-15-30/4-B-VA/PTFE



30Ø/10



Typ / Type
SK-15-30/10-B-VA/PTFE

Mounting [flush / nonflush]	[B / NB]	B	B
Operating distance	Sn [mm]	1... 15	1... 15
Hysteresis	H [%SR]	15	15
Frequency of operating cycles	f [Hz]	100	100
Repeat accuracy	R [%SR]	2	2
Operating temperature range	Ta [C°]	-30... 80	-30... 80
Temperature drift [range]	[%SR]	20 [-5... 55]	20 [-5... 55]
Protection class		IP 66	IP 66
Rated insulation voltage	Ui [V]	75 d. c.	75 d. c.
Material of housing		A: PTFE; B: V2A	A: PTFE; B: VA
Utilisation category			
Connection		2m / 3x 0,14mm ² / PUR - ZA	
Supply voltage range UB	Ub [V]	4...8	4...8
No-load supply current	Iomax. [mA]		
Minimum operational current	Im [mA]		
Operational current	Ie [mA]		
Off-state current	Ir [mA]		
Voltage drop	Ud @ Ie [V]		
Time delay before availability	tv [ms]		
Indicator [UB / Output]			
Short circuit- overload-protection			
Reverse polarity protection			
Conformity	EMC EEC-direct.	IEC 60947-5-2 : 2004	IEC 60947-5-2 : 2004
EMC		IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.6-2.8 Mhz.	IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.6-2.6 Mhz.
Associated equipment		SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20	SV-; SVD-; SNG-...-K; SNG-...K-T SL-YA-m20
Additional functionality			
Application			

Applications

