

microLEVEL

application notes

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
 TM pulse modulation technique (High noise immune)

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

M30 model and/or dimension

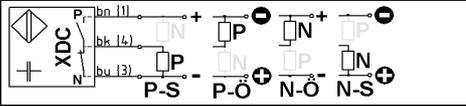
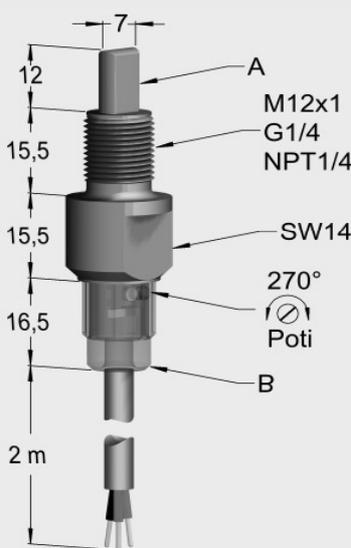
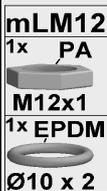
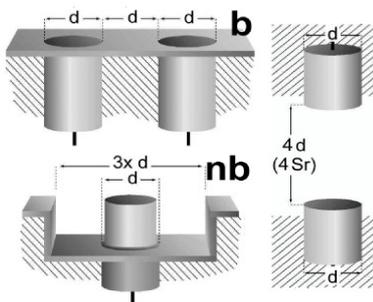
P output stage PNP, NPN, 2-wire AC/DC, X (switchable)

b mounting b=flush nb=non-flush

S S=N.O. Ö=N.C. X=function switchable

(c)PTFE Housing material, e.g. PTFE cPTFE=complete PTFE

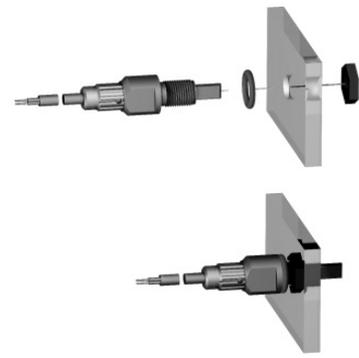
1m2-Y2 cable & connector:
 Y# = connector
 1m2 = 1.2m cable length



Typ / Type	Nr./No.
SK1-FS-mLM12-XDC-PSU	07305
SK1-FS-mLG1/4-XDC-PSU	07306
SK1-FS-mLNPT1/4-XDC-PSU	07307

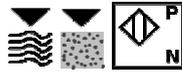
Standard Level Sensors
 can detect solids like sand, granules and pellets as well as all nonconductive liquids.

Mounting
 Standard through hole mounting can be done using the enclosed nut. It is not required but recommended while mounted in a female thread. Sealing can be done using an O-ring or flat type gasket. We recommend to close the pot access hole by the use of the circular clip.



mounting [flush / nonflush]	[b / nb]	nb
operating distance	Sd [mm]	FS
Hysteresis	H [%Sr]	
frequency of operating cycles	f [Hz]	5
repeat accuracy	R [%Sr]	
Operating temperature range	[°C]	-10... 70
temperature drift [range]	[%Sr] [°C]	
protection class (EN 60529)		A : IP 68 / 10bar; B : IP 69K
rated insulation voltage	Ui [V]	75 d. c.
material of housing		PSU
utilisation category		DC13
connection		2m / 3x 0,34mm ² PUR
supply voltage range UB	UB [V]	10... 35
no-load supply current	Io [mA]	20
minimum operational current	Im [mA]	-
operational current	Ie [mA]	50 / 50 XDC
off-state current	Ir [mA]	-
voltage drop [50mA/ Ie]	Ud [V]	3
time delay before availability	tv [ms]	< 300
Indicator [UB / Output]		• / •
Short circuit- overload-protection		• / •
Reverse polarity Protection		!
Conformity	EMC EEC-direct.	IEC 60947-5-2 : 2000
EMC		
associated equipment		
additional functionality		
Application		

1..8

**M12**

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 TM pulse modulation technique
 (High noise immune)

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

M30 model and/or dimension

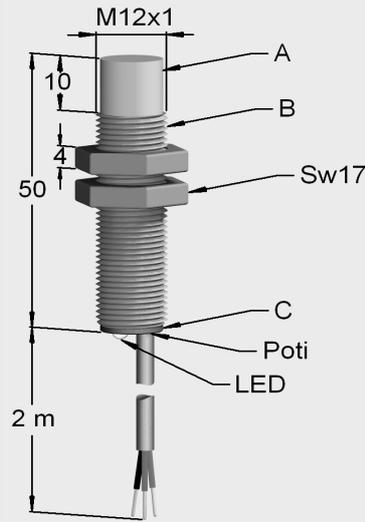
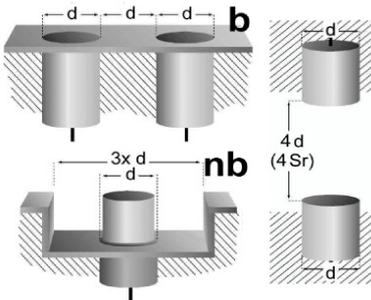
P output stage **PNP**, **NPN**,
 2-wire **AC/DC**, **X** (switchable)

b mounting **b**=flush
nb=non-flush

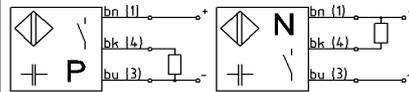
S **S**=N.O. **Ö**=N.C.
X=function switchable

(c)PTFE Housing material, e.g. **PTFE**
cPTFE=complete PTFE

1m2-Y2 cable & connector:
 Y# = connector
 1m2 = 1.2m cable length



160106



Typ / Type	Nr./No.
SK1-8-M12-P-nb-S	07001
SK1-8-M12-P-nb-Ö	07002
SK1-8-M12-N-nb-S	07003
SK1-8-M12-N-nb-Ö	07004

mounting [flush / nonflush]	[b / nb]	nb
operating distance	Sd [mm]	1... 8
Hysteresis	H [%Sr]	15
frequency of operating cycles	f [Hz]	100
repeat accuracy	R [%Sr]	2
Operating temperature range	[°C]	-30... 60
temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
protection class (EN 60529)		IP 65
rated insulation voltage	Ui [V]	75 d. c.
material of housing		A. PVC; B: PVC; C: PVC
utilisation category		DC13
connection		2m / 3x 0,14mm ² PUR

supply voltage range UB	UB [V]	12... 35
no-load supply current	Io [mA]	10
minimum operational current	Im [mA]	
operational current	Ie [mA]	200
off-state current	Ir [mA]	
voltage drop [50mA/ Ie]	Ud [V]	0,8
time delay before availability	tv [ms]	
Indicator [UB / Output]		- / •
Short circuit- overload-protection		• / •
Reverse polarity Protection		•

Conformity EMC IEC 60947-5-2 : 2000



EMC

associated equipment
 additional functionality

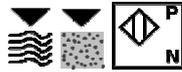
SNG-###AC...

Application

General note:
 Application notes not available. Please follow the
 general requirements given in the product catalog.

Notes:

1..6



M12

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- TM pulse modulation technique (High noise immune)

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

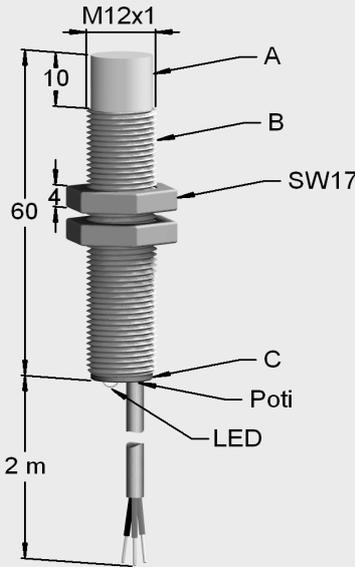
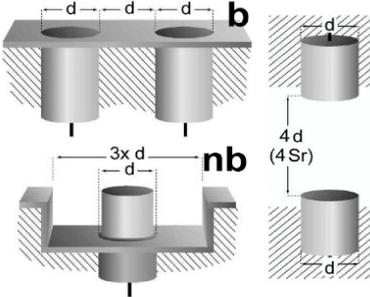
- M30 model and/or dimension
- P output stage **PNP, NPN, 2-wire AC/DC, X** (switchable)

- b mounting **b=flush**
nb=non-flush

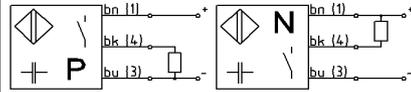
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- (c)PTFE Housing material, e.g. **PTFE**
cPTFE=complete PTFE

- 1m2-Y2 cable & connector:
Y# = connector
1m2 = 1.2m cable length



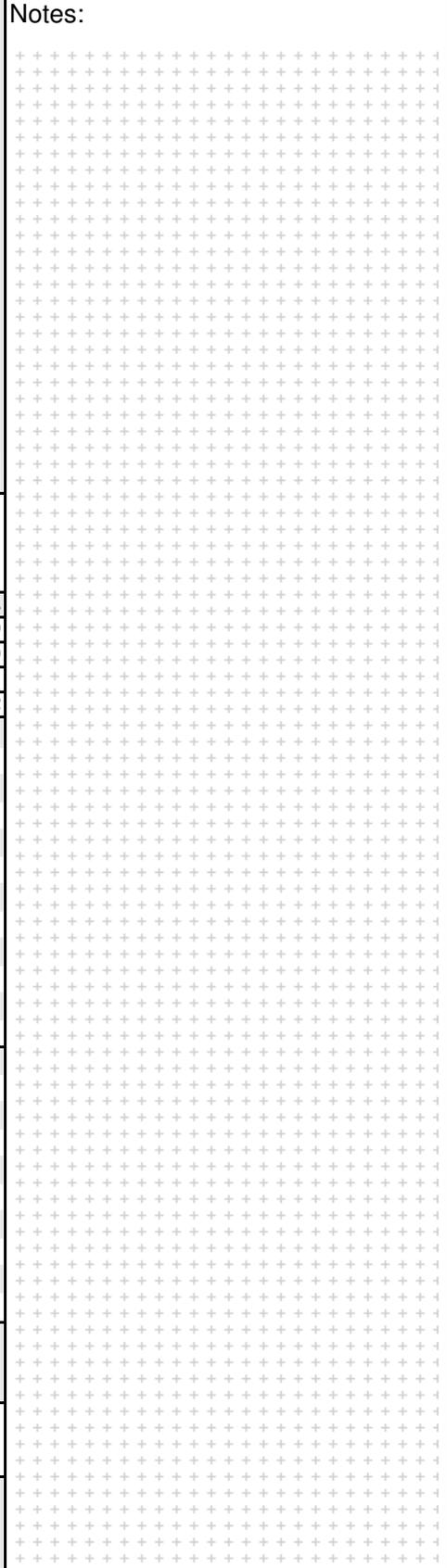
160106



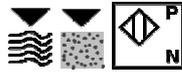
Typ / Type	Nr./No.
SK1-TM-6-M12/60-P-nb-S-PVC	07069
SK1-TM-6-M12/60-P-nb-Ö-PVC	07070
SK1-TM-6-M12/60-N-nb-S-PVC	07071
SK1-TM-6-M12/60-N-nb-Ö-PVC	07072

mounting [flush / nonflush]	[b / nb]	nb
operating distance	Sd [mm]	1... 6
Hysteresis	H [%Sr]	15
frequency of operating cycles	f [Hz]	25
repeat accuracy	R [%Sr]	2
Operating temperature range	[°C]	-30... 60
temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
protection class (EN 60529)		IP 65
rated insulation voltage	Ui [V]	75 d. c.
material of housing		A: PVC; B: PVC; C: PVC
utilisation category		DC13
connection		2m / 3x 0,14mm ² PUR
supply voltage range UB	UB [V]	13... 35
no-load supply current	Io [mA]	15
minimum operational current	Im [mA]	
operational current	Ie [mA]	200
off-state current	Ir [mA]	
voltage drop [50mA/ Ie]	Ud [V]	0,8
time delay before availability	tv [ms]	
Indicator [UB / Output]		- / •
Short circuit- overload-protection		• / •
Reverse polarity Protection		•
Conformity	EMC EEC-direct.	IEC 60947-5-2 : 2000
EMC		
associated equipment		SNG-###AC...
additional functionality		
Application		

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1..8

**M12**

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M30 model and/or dimension

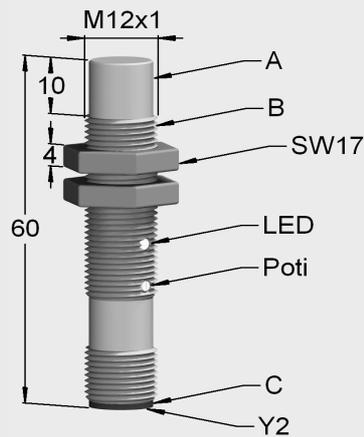
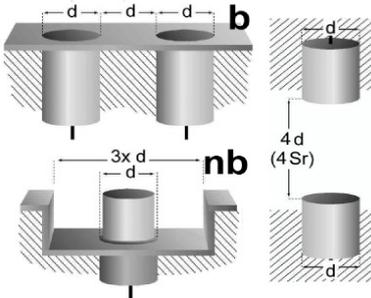
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 2-wire **AC/DC**, **X** (switchable)

b mounting **b**=flush
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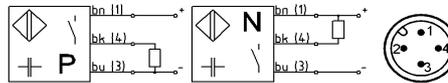
S **S**=N.O. **Ö**=N.C.
X=function switchable

(c)PTFE Housing material, e.g. **PTFE**
cPTFE=complete PTFE

1m2-Y2 cable & connector:
 Y# = connector
 1m2 = 1.2m cable length



160106



Typ / Type	Nr./No.
SK1-8-M12-P-nb-S-Y2	07037
SK1-8-M12-P-nb-Ö-Y2	07038
SK1-8-M12-N-nb-S-Y2	07039
SK1-8-M12-N-nb-Ö-Y2	07040

mounting [flush / nonflush]	[b / nb]	nb
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operating distance	Sd [mm]	1... 8
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Hysteresis	H [%Sr]	15
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frequency of operating cycles	f [Hz]	100
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repeat accuracy	R [%Sr]	2
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Operating temperature range	[°C]	-30... 60
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temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
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protection class (EN 60529)		IP 65
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rated insulation voltage	Ui [V]	75 d. c.
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material of housing		A: PVC; B: PVC; C: PA
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utilisation category		DC13
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connection		Z20; Z21
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supply voltage range UB	UB [V]	12... 35
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no-load supply current	Io [mA]	10
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minimum operational current	Im [mA]	
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operational current	Ie [mA]	200
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off-state current	Ir [mA]	
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voltage drop [50mA/ Ie]	Ud [V]	0,8
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time delay before availability	tv [ms]	
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Indicator [UB / Output]		- / •
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Short circuit- overload-protection		• / •
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Reverse polarity Protection		•
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Conformity	EMC	IEC 60947-5-2 : 2000
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EEC-direct.		
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EMC

associated equipment

SNG-###AC...

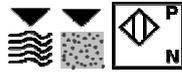
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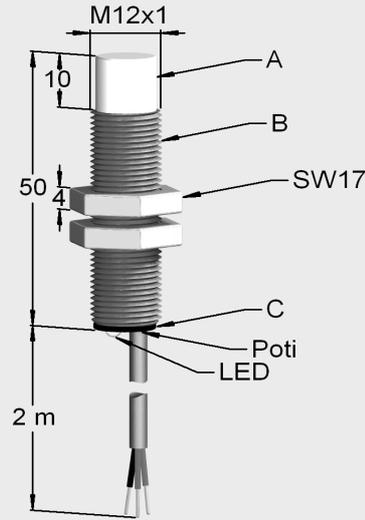
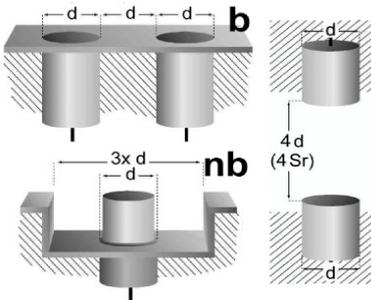
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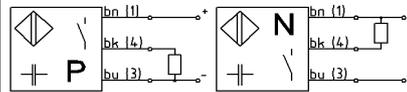
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(c)PTFE Housing material, e.g. **PTFE**
cPTFE=complete PTFE

1m2-Y2 cable & connector:
 Y# = connector
 1m2 = 1.2m cable length



191006



Typ / Type	Nr./No.
SK1-8-M12-PnbS-VA/PTFE	07005
SK1-8-M12-PnbÖ-VA/PTFE	07006
SK1-8-M12-NnbS-VA/PTFE	07007
SK1-8-M12-NnbÖ-VA/PTFE	07008

mounting [flush / nonflush]	[b / nb]	nb
operating distance	Sd [mm]	1... 8
Hysteresis	H [%Sr]	15
frequency of operating cycles	f [Hz]	100
repeat accuracy	R [%Sr]	2
Operating temperature range	[°C]	-30... 70
temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
protection class (EN 60529)		IP 65
rated insulation voltage	Ui [V]	75 d. c.
material of housing		A: PTFE; B: VA; C: POM
utilisation category		DC13
connection		2m / 3x 0,14mm ² PUR

supply voltage range UB	UB [V]	12... 35
no-load supply current	Io [mA]	10
minimum operational current	Im [mA]	
operational current	Ie [mA]	200
off-state current	Ir [mA]	
voltage drop [50mA/ Ie]	Ud [V]	0,8
time delay before availability	tv [ms]	
Indicator [UB / Output]		- / •
Short circuit- overload-protection		• / •
Reverse polarity Protection		•

Conformity EMC IEC 60947-5-2 : 2000



EMC

associated equipment
 additional functionality

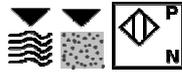
SNG-###AC...

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M30 model and/or dimension

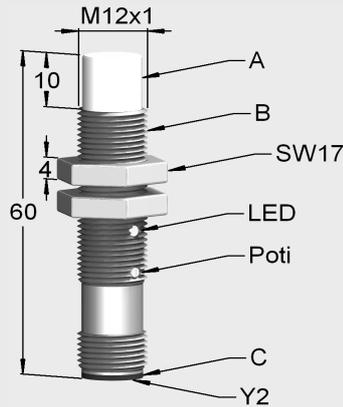
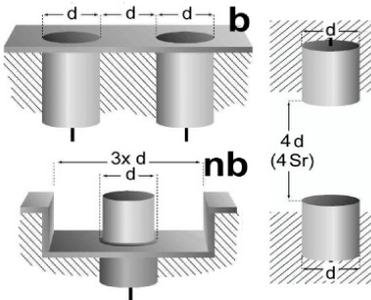
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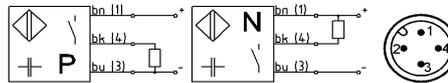
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191006



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SK1-8-M12-PnbS-VA/PTFE-Y2	07041
SK1-8-M12-PnbÖ-VA/PTFE-Y2	07042
SK1-8-M12-NnbS-VA/PTFE-Y2	07043
SK1-8-M12-NnbÖ-VA/PTFE-Y2	07044

mounting [flush / nonflush]	[b / nb]	nb
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operating distance	Sd [mm]	1... 8
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Hysteresis	H [%Sr]	15
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frequency of operating cycles	f [Hz]	100
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repeat accuracy	R [%Sr]	2
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Operating temperature range	[°C]	-30... 70
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temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
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protection class (EN 60529)		IP 65
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rated insulation voltage	Ui [V]	75 d. c.
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material of housing		A: PTFE; B: VA; C: PA
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utilisation category		DC13
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connection		Z20; Z21
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supply voltage range UB	UB [V]	12... 35
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no-load supply current	Io [mA]	10
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minimum operational current	Im [mA]	
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operational current	Ie [mA]	200
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off-state current	Ir [mA]	
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voltage drop [50mA/ Ie]	Ud [V]	0,8
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time delay before availability	tv [ms]	
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Indicator [UB / Output]		- / •
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Short circuit- overload-protection		• / •
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Reverse polarity Protection		•
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Conformity	EMC EEC-direct.	IEC 60947-5-2 : 2000
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EMC

associated equipment

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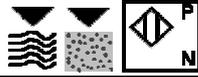
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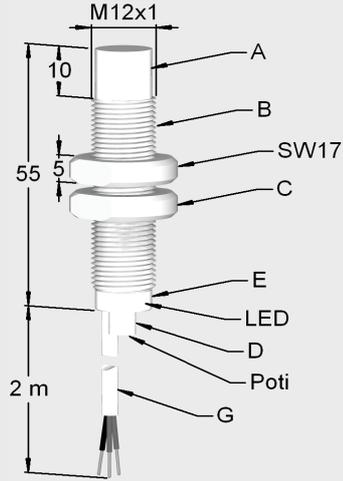
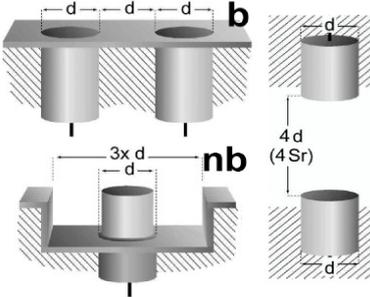
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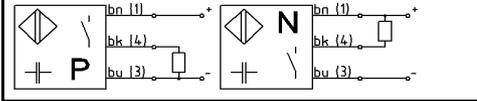
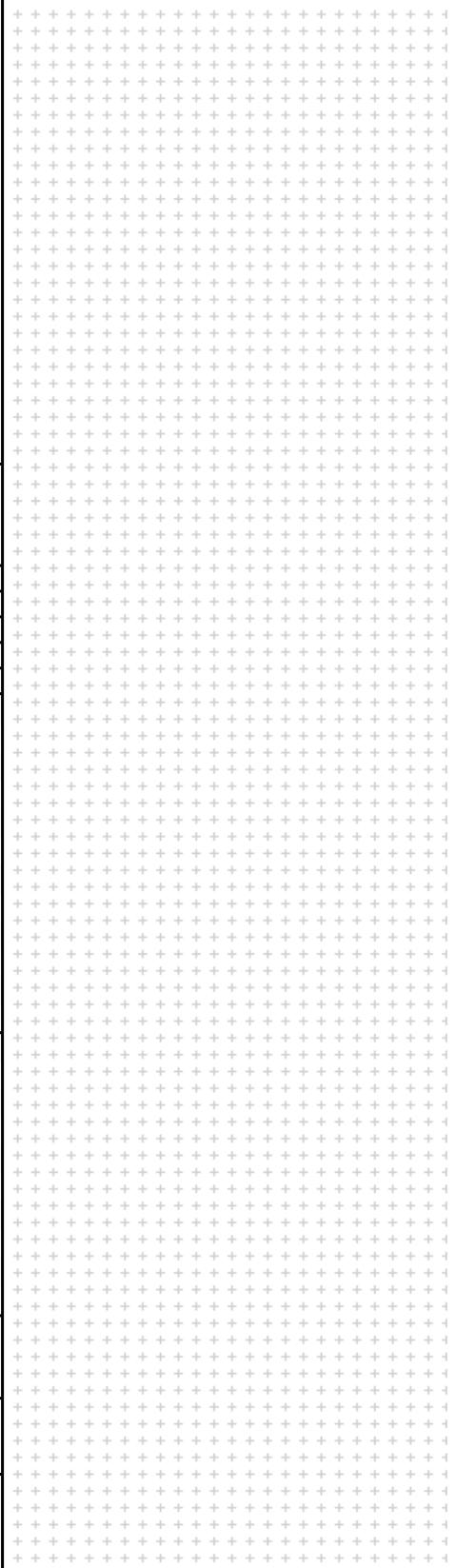
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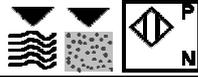
Notes:



Typ / Type	Nr./No.
SK1-8-M12-P-nb-S-cPTFE	07077
SK1-8-M12-P-nb-Ö-cPTFE	07078
SK1-8-M12-N-nb-S-cPTFE	07079
SK1-8-M12-N-nb-Ö-cPTFE	07080

mounting [flush / nonflush]	[b / nb]	nb
operating distance	Sd [mm]	1... 8
Hysteresis	H [%Sr]	15
frequency of operating cycles	f [Hz]	100
repeat accuracy	R [%Sr]	2
Operating temperature range	[°C]	-30... 70
temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
protection class (EN 60529)		IP 65
rated insulation voltage	Ui [V]	75 d. c.
material of housing		A -G: PTFE
utilisation category		DC13
connection		2m / 3x 0,2mm ² PTFE
supply voltage range UB	UB [V]	12... 35
no-load supply current	Io [mA]	10
minimum operational current	Im [mA]	
operational current	Ie [mA]	200
off-state current	Ir [mA]	
voltage drop [50mA/ Ie]	Ud [V]	0,8
time delay before availability	tv [ms]	
Indicator [UB / Output]		- / • LED int.
Short circuit- overload-protection		• / •
Reverse polarity Protection		•
Conformity	EMC EEC-direct.	IEC 60947-5-2 : 2000
EMC		
associated equipment		SNG-###AC...
additional functionality		
Application		

1..6



M12

application notes

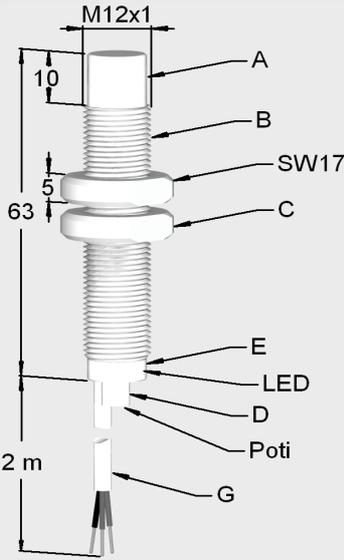
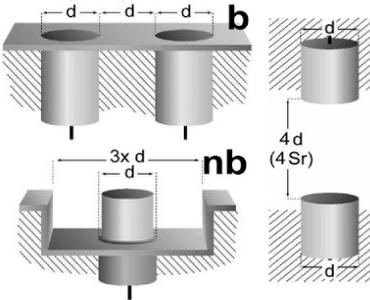
Type code (abstract)

- 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
- TM pulse modulation technique (High noise immune)

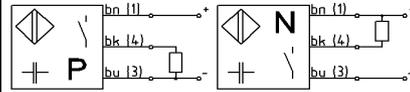
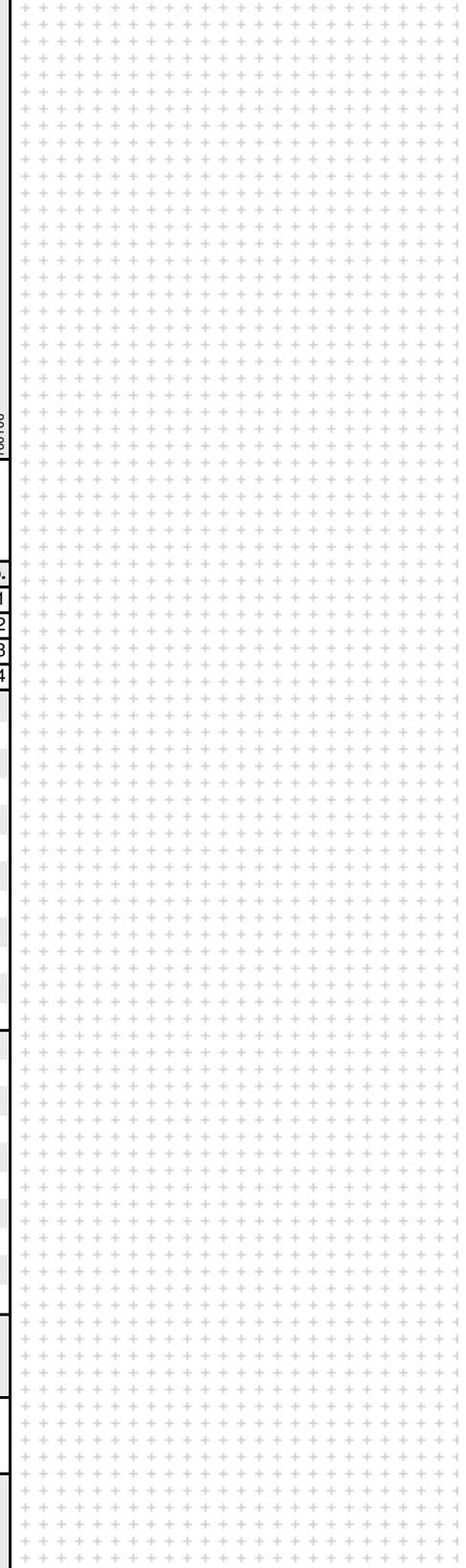
- ## / FS(A) max sensing distance / Fill-level switch (adaptive)

- M30 model and/or dimension
- P output stage **PNP**, **NPN**, 2-wire **AC/DC**, **X** (switchable)
- b mounting **b**=flush **nb**=non-flush
- S **S**=N.O. **Ö**=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



General note:
Application notes not available. Please follow the general requirements given in the product catalog.

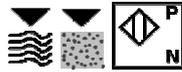
Notes:



Typ / Type	Nr./No.
SK1-TM-6-M12/63-P-nb-S-cPTFE	07301
SK1-TM-6-M12/63-P-nb-Ö-cPTFE	07302
SK1-TM-6-M12/63-N-nb-S-cPTFE	07303
SK1-TM-6-M12/63-N-nb-Ö-cPTFE	07304

mounting [flush / nonflush]	[b / nb]	nb
operating distance	Sd [mm]	1... 6
Hysteresis	H [%Sr]	15
frequency of operating cycles	f [Hz]	25
repeat accuracy	R [%Sr]	2
Operating temperature range	[°C]	-30... 60
temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
protection class (EN 60529)		IP 65
rated insulation voltage	Ui [V]	75 d. c.
material of housing		A - G: PTFE
utilisation category		DC13
connection		2m / 3x 0,2mm ² PTFE
supply voltage range UB	UB [V]	12... 35
no-load supply current	Io [mA]	10
minimum operational current	Im [mA]	
operational current	Ie [mA]	200
off-state current	Ir [mA]	
voltage drop [50mA/ Ie]	Ud [V]	0,8
time delay before availability	tv [ms]	
Indicator [UB / Output]		- / • LED int.
Short circuit- overload-protection		• / •
Reverse polarity Protection		•
Conformity	EMC EEC-direct.	IEC 60947-5-2 : 2000
EMC		
associated equipment		SNG-###AC...
additional functionality		
Application		

2..15

**M18**

application notes

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
 TM pulse modulation technique
 (High noise immune)

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

M30 model and/or dimension

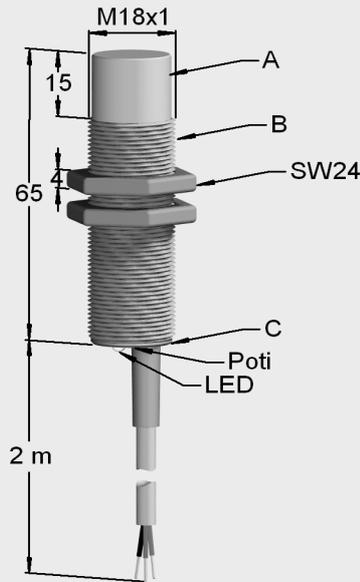
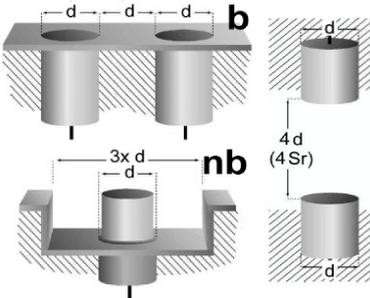
P output stage **PNP**, **NPN**,
 2-wire **AC/DC**, **X** (switchable)

b mounting **b**=flush
nb=non-flush

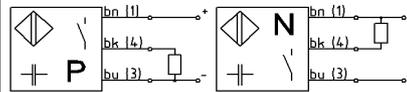
S **S**=N.O. **Ö**=N.C.
X=function switchable

(c)PTFE Housing material, e.g. **PTFE**
cPTFE=complete PTFE

1m2-Y2 cable & connector:
 Y# = connector
 1m2 = 1.2m cable length



160106



Typ / Type	Nr./No.
SK1-15-M18-P-nb-S	07013
SK1-15-M18-P-nb-Ö	07014
SK1-15-M18-N-nb-S	07015
SK1-15-M18-N-nb-Ö	07016

mounting [flush / nonflush]	[b / nb]	nb
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operating distance	Sd [mm]	2... 15
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Hysteresis	H [%Sr]	15
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frequency of operating cycles	f [Hz]	100
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repeat accuracy	R [%Sr]	2
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Operating temperature range	[°C]	-30... 60
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temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
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protection class (EN 60529)		IP 67
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rated insulation voltage	Ui [V]	75 d. c.
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material of housing		A: PVC; B: PVC; C: PBT
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utilisation category		DC13
----------------------	--	------

connection		2m / 3x 0,25mm ² PVC
------------	--	---------------------------------

supply voltage range UB	UB [V]	10... 35
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no-load supply current	Io [mA]	10
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minimum operational current	Im [mA]	
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operational current	Ie [mA]	300
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off-state current	Ir [mA]	
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voltage drop [50mA/ Ie]	Ud [V]	1,5
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time delay before availability	tv [ms]	
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Indicator [UB / Output]		- / •
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Short circuit- overload-protection		• / •
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Reverse polarity Protection		•
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Conformity	EMC	IEC 60947-5-2 : 2000
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EEC-direct.		CE
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EMC

associated equipment

SNG-###AC...

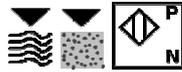
additional functionality

Application

General note:
 Application notes not available. Please follow the
 general requirements given in the product catalog.

Notes:

2..15

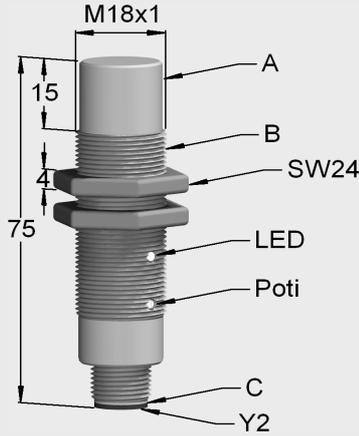
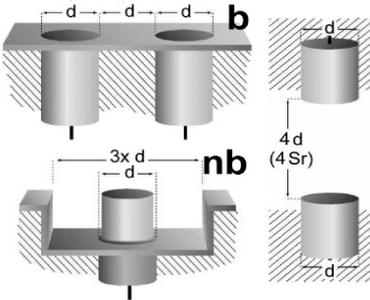


M18

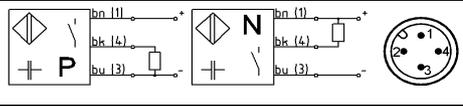
application notes

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
 TM 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, 2-wire AC/DC, X** (switchable)
 b mounting **b=flush nb=non-flush**
 S **S=N.O. Ö=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



160106



Typ / Type	Nr./No.
SK1-15-M18-P-nb-S-Y2	07045
SK1-15-M18-P-nb-Ö-Y2	07046
SK1-15-M18-N-nb-S-Y2	07047
SK1-15-M18-N-nb-Ö-Y2	07048

mounting [flush / nonflush]	[b / nb]	nb
operating distance	Sd [mm]	2... 15
Hysteresis	H [%Sr]	15
frequency of operating cycles	f [Hz]	100
repeat accuracy	R [%Sr]	2
Operating temperature range	[°C]	-30... 60
temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
protection class (EN 60529)		IP 67
rated insulation voltage	Ui [V]	75 d. c.
material of housing		A: PVC B: PVC; C: PA
utilisation category		DC13
connection		Z20; Z21

supply voltage range UB	UB [V]	10... 35
no-load supply current	Io [mA]	10
minimum operational current	Im [mA]	
operational current	Ie [mA]	300
off-state current	Ir [mA]	
voltage drop [50mA/ Ie]	Ud [V]	1,5
time delay before availability	tv [ms]	
Indicator [UB / Output]		- / •
Short circuit- overload-protection		• / •
Reverse polarity Protection		•

Conformity	EMC EEC-direct.	IEC 60947-5-2 : 2000
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EMC		
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associated equipment	SNG-###AC...
additional functionality	

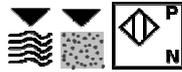
Application	
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General note:
 Application notes not available. Please follow the general requirements given in the product catalog.

Notes:

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2..15

**M18**

application notes

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
 TM pulse modulation technique
 (High noise immune)

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

M30 model and/or dimension

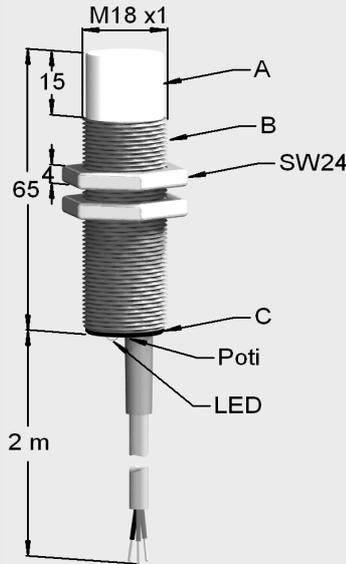
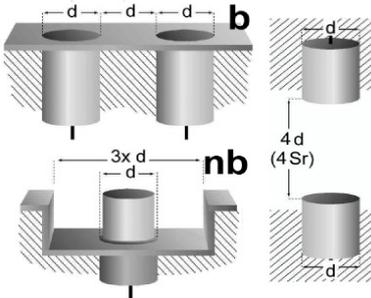
P output stage **PNP**, **NPN**,
 2-wire **AC/DC**, **X** (switchable)

b mounting **b**=flush
nb=non-flush

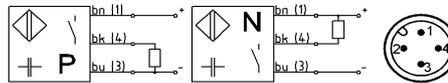
S **S**=N.O. **Ö**=N.C.
X=function switchable

(c)PTFE Housing material, e.g. **PTFE**
cPTFE=complete PTFE

1m2-Y2 cable & connector:
 Y# = connector
 1m2 = 1.2m cable length



191006



Typ / Type	Nr./No.
SK1-15-M18-PnbS-VA/PTFE	07017
SK1-15-M18-PnbÖ-VA/PTFE	07018
SK1-15-M18-NnbS-VA/PTFE	07019
SK1-15-M18-NnbÖ-VA/PTFE	07020

mounting [flush / nonflush]	[b / nb]	nb
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operating distance	Sd [mm]	2... 15
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Hysteresis	H [%Sr]	15
------------	---------	----

frequency of operating cycles	f [Hz]	100
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repeat accuracy	R [%Sr]	2
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Operating temperature range	[°C]	-30... 70
-----------------------------	------	-----------

temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
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protection class (EN 60529)		IP 67
-----------------------------	--	-------

rated insulation voltage	Ui [V]	75 d. c.
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material of housing		A: PTFE; B: VA; C: PA
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utilisation category		DC13
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connection		2m / 3x 0,25mm ² PVC
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supply voltage range UB	UB [V]	10... 35
-------------------------	--------	----------

no-load supply current	Io [mA]	10
------------------------	---------	----

minimum operational current	Im [mA]	
-----------------------------	---------	--

operational current	Ie [mA]	300
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off-state current	Ir [mA]	
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voltage drop [50mA/ Ie]	Ud [V]	1,5
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time delay before availability	tv [ms]	
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Indicator [UB / Output]		- / •
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Short circuit- overload-protection		• / •
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Reverse polarity Protection		•
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Conformity	EMC	IEC 60947-5-2 : 2000
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	EEC-direct.	
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EMC

associated equipment

SNG-###AC...

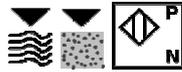
additional functionality

Application

General note:
 Application notes not available. Please follow the
 general requirements given in the product catalog.

Notes:

2..15

**M18**

application notes

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
 TM pulse modulation technique
 (High noise immune)

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

M30 model and/or dimension

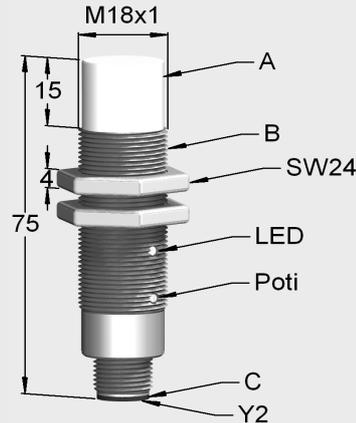
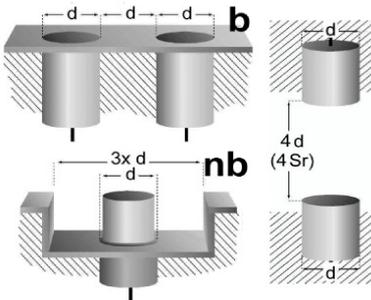
P output stage **PNP**, **NPN**,
 2-wire **AC/DC**, **X** (switchable)

b mounting **b**=flush
nb=non-flush

S **S**=N.O. **Ö**=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



191006



Typ / Type	Nr./No.
SK1-15-M18-PnbS-VA/PTFE-Y2	07049
SK1-15-M18-PnbÖ-VA/PTFE-Y2	07050
SK1-15-M18-NnbS-VA/PTFE-Y2	07051
SK1-15-M18-NnbÖ-VA/PTFE-Y2	07052

mounting [flush / nonflush]	[b / nb]
operating distance	Sd [mm]
Hysteresis	H [%Sr]
frequency of operating cycles	f [Hz]
repeat accuracy	R [%Sr]
Operating temperature range	[°C]
temperature drift [range]	[%Sr] [°C]
protection class (EN 60529)	
rated insulation voltage	Ui [V]
material of housing	
utilisation category	
connection	

nb

2... 15

15

100

2

-30... 70

15 [-5... 55]

IP 67

75 d. c.

A: PTFE; B: VA; C: PA

DC13

Z20; Z21



10... 35

10

10

300

1,5

-

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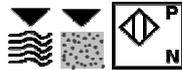
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-

Application

2..15



M18

application notes

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
- TM pulse modulation technique (High noise immune)

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

- M30 model and/or dimension

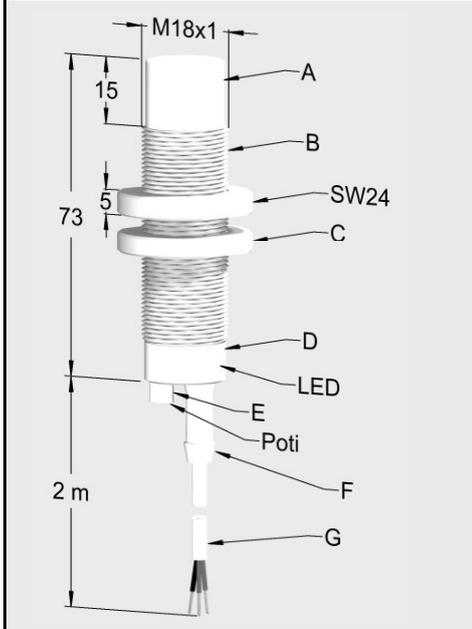
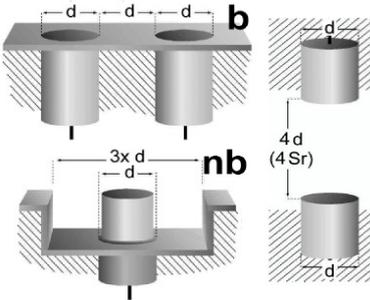
- P output stage **PNP**, **NPN**, 2-wire **AC/DC**, **X** (switchable)

- b mounting **b**=flush **nb**=non-flush

- S **S**=N.O. **Ö**=N.C. **X**=function switchable

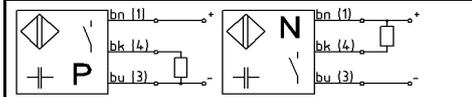
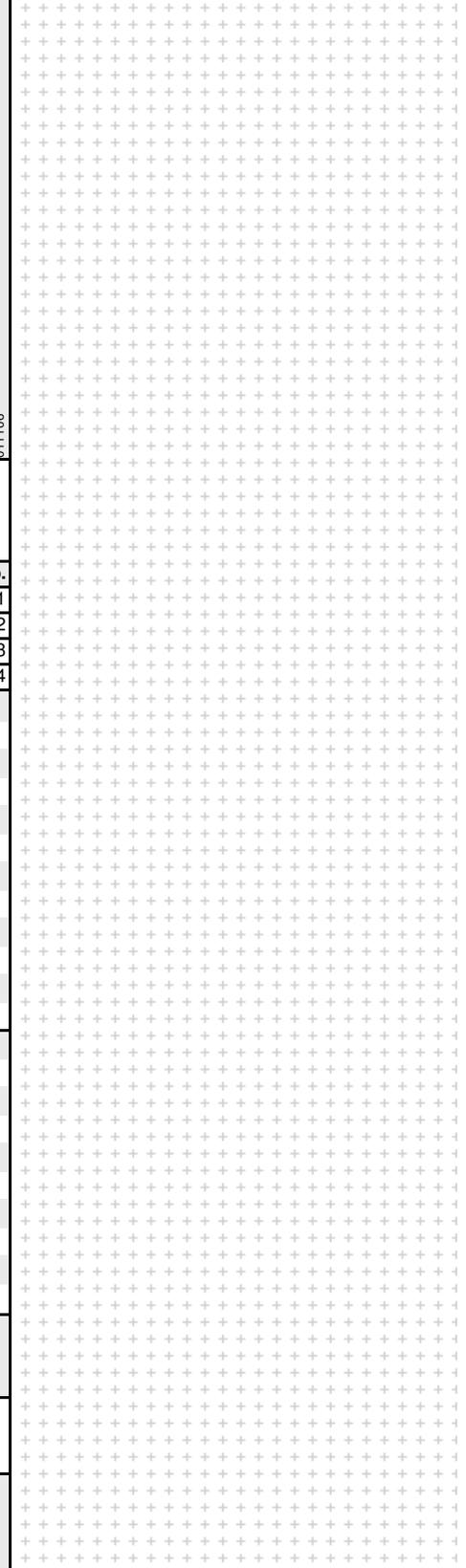
- (c)PTFE Housing material, e.g. **PTFE** **cPTFE**=complete PTFE

- 1m2-Y2 cable & connector:
 Y# = connector
 1m2 = 1.2m cable length



General note:
Application notes not available. Please follow the general requirements given in the product catalog.

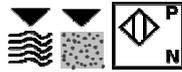
Notes:



Typ / Type	Nr./No.
SK1-15-M18-P-nb-S-cPTFE	07081
SK1-15-M18-P-nb-Ö-cPTFE	07082
SK1-15-M18-N-nb-S-cPTFE	07083
SK1-15-M18-N-nb-Ö-cPTFE	07084

mounting [flush / nonflush]	[b / nb]	nb
operating distance	Sd [mm]	2... 15
Hysteresis	H [%Sr]	15
frequency of operating cycles	f [Hz]	100
repeat accuracy	R [%Sr]	2
Operating temperature range	[°C]	-30... 70
temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
protection class (EN 60529)		IP 67
rated insulation voltage	Ui [V]	75 d. c.
material of housing		A-G : PTFE
utilisation category		DC13
connection		2m / 3x 0,2mm ² PTFE
supply voltage range UB	UB [V]	10... 35
no-load supply current	Io [mA]	10
minimum operational current	Im [mA]	
operational current	Ie [mA]	300
off-state current	Ir [mA]	
voltage drop [50mA/ Ie]	Ud [V]	1,5
time delay before availability	tv [ms]	
Indicator [UB / Output]		- / • LED int.
Short circuit- overload-protection		• / •
Reverse polarity Protection		•
Conformity	EMC EEC-direct.	IEC 60947-5-2 : 2000
EMC		
associated equipment		SNG-###AC...
additional functionality		
Application		

1...30

**M30**

application notes

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
 TM pulse modulation technique
 (High noise immune)

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

M30 model and/or dimension

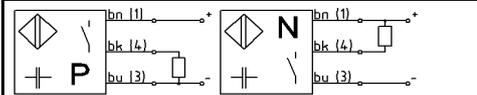
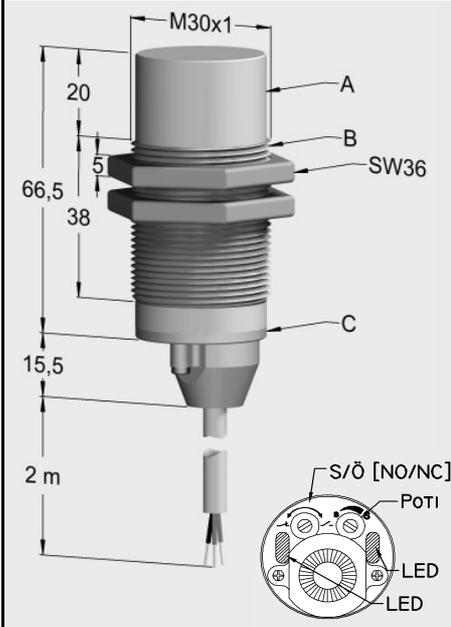
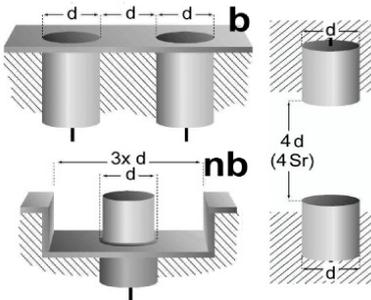
P output stage **PNP**, **NPN**,
 2-wire **AC/DC**, **X** (switchable)

b mounting b=flush
 nb=non-flush

S **S**=N.O. **Ö**=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	Nr./No.
SK1-30-M30-P-nb-X-PBT	07089
SK1-30-M30-N-nb-X-PBT	07090

Power indicator:
 Green LED with steady light

Output state indicator:
 Yellow LED lights up during switching
 operations

Pot:
 20-turn-trimmer without stop position.
 The sensitivity is increased by turning the
 potentiometer clockwise.
 The sensitivity is diminished by turning the
 potentiometer anticlockwise

Rotary switch:
 Right-hand position = N.O. function
 Left-hand position = N.C. function

Note:
**Please turn the switch towards the right
 or left-hand stop only until you feel a slight
 resistance, and no further. This will
 damage the switch.**

mounting [flush / nonflush]	[b / nb]	nb
operating distance	Sd [mm]	1... 30
Hysteresis	H [%Sr]	15
frequency of operating cycles	f [Hz]	100
repeat accuracy	R [%Sr]	5
Operating temperature range	[°C]	-30... 70
temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
protection class (EN 60529)		A, B: IP 66 / IP 68; C: IP 64
rated insulation voltage	Ui [V]	75 d. c.
material of housing		A: PBT; B: PBT; C: PBT/PE
utilisation category		DC13
connection		2m / 3x 0,34mm ² PUR

supply voltage range UB	UB [V]	10... 35
no-load supply current	Io [mA]	15
minimum operational current	Im [mA]	
operational current	Ie [mA]	300
off-state current	Ir [mA]	
voltage drop [50mA/ Ie]	Ud [V]	1,8
time delay before availability	tv [ms]	
Indicator [UB / Output]		• / •
Short circuit- overload-protection		• / •
Reverse polarity Protection		•

Conformity EMC IEC 60947-5-2 : 2000



EMC ESD > 16kV

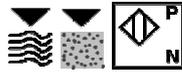
associated equipment SNG-###AC...

additional functionality S / Ö NO / NC



Application

1...30

**M30**

application notes

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
 TM pulse modulation technique
 (High noise immune)

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

M30 model and/or dimension

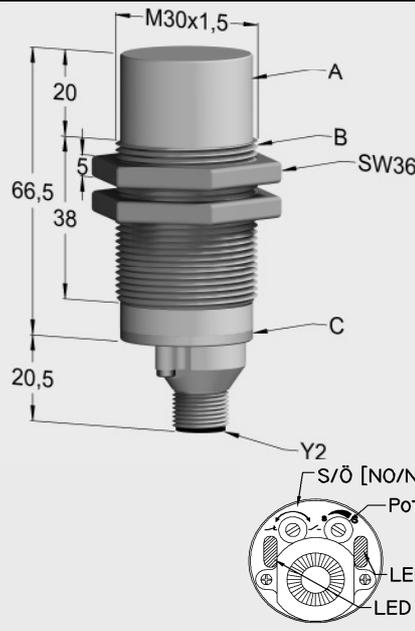
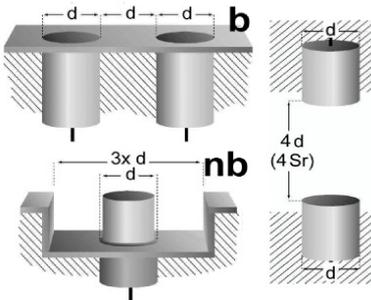
P output stage **PNP**, **NPN**,
 2-wire **AC/DC**, **X** (switchable)

b mounting b=flush
 nb=non-flush

S **S**=N.O. **Ö**=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****Nr./No.**

SK1-30-M30-P-nb-X-PBT-Y2	07091
SK1-30-M30-N-nb-X-PBT-Y2	07092

mounting [flush / nonflush]	[b / nb]	nb
operating distance	Sd [mm]	1... 30
Hysteresis	H [%Sr]	15
frequency of operating cycles	f [Hz]	100
repeat accuracy	R [%Sr]	5
Operating temperature range	[°C]	-30... 70
temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
protection class (EN 60529)		A, B: IP 66 / IP 68; C: IP 64
rated insulation voltage	Ui [V]	75 d. c.
material of housing		A: PBT; B: PBT; C: PBT/PE
utilisation category		DC13
connection		Z20; Z21

Conformity	EMC EEC-direct.	IEC 60947-5-2 : 2000	
EMC		ESD > 16kV	
associated equipment		SNG-###AC...	
additional functionality		S / Ö NO / NC	
Application			



Power indicator:
 Green LED with steady light

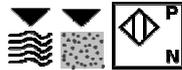
Output state indicator:
 Yellow LED lights up during switching operations

Pot:
 20-turn-trimmer without stop position.
 The sensitivity is increased by turning the potentiometer clockwise.
 The sensitivity is diminished by turning the potentiometer anticlockwise

Rotary switch:
 Right-hand position = N.O. function
 Left-hand position = N.C. function

Note:
 Please turn the switch towards the right or left-hand stop only until you feel a slight resistance, and no further. This will damage the switch.

1...30

**M30**

application notes

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
 TM pulse modulation technique
 (High noise immune)

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

M30 model and/or dimension

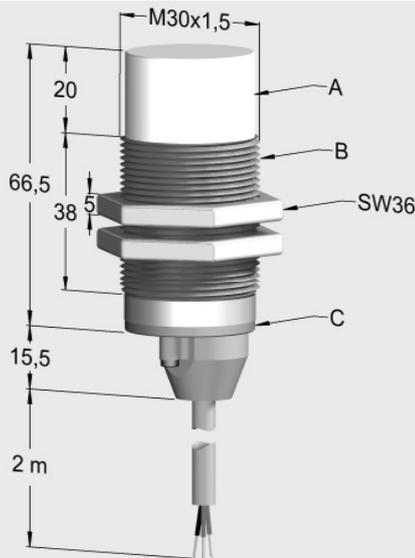
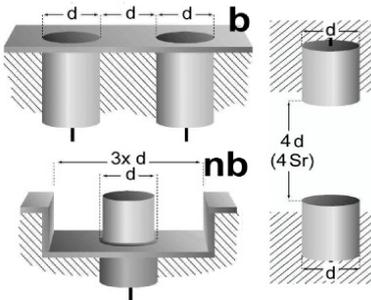
P output stage **PNP**, **NPN**,
 2-wire **AC/DC**, **X** (switchable)

b mounting **b**=flush
nb=non-flush

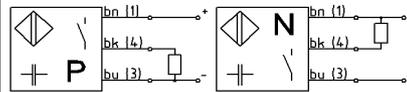
S **S**=N.O. **Ö**=N.C.
X=function switchable

(c)PTFE Housing material, e.g. **PTFE**
cPTFE=complete PTFE

1m2-Y2 cable & connector:
 Y# = connector
 1m2 = 1.2m cable length



131106



Typ / Type	Nr./No.
SK1-30-M30-PnbX-VA/PTFE	07093
SK1-30-M30-NnbX-VA/PTFE	07094

mounting [flush / nonflush]	[b / nb]	nb
operating distance	Sd [mm]	2... 30
Hysteresis	H [%Sr]	15
frequency of operating cycles	f [Hz]	100
repeat accuracy	R [%Sr]	5
Operating temperature range	[°C]	-30... 70
temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
protection class (EN 60529)		A, B: IP 66 / IP 67; C: IP 64
rated insulation voltage	Ui [V]	75 d. c.
material of housing		A: PTFE; B: VA; C: PBT/PE
utilisation category		DC13
connection		2m / 3x 0,34mm ² PUR

supply voltage range UB	UB [V]	10... 35
no-load supply current	Io [mA]	15
minimum operational current	Im [mA]	
operational current	Ie [mA]	300
off-state current	Ir [mA]	
voltage drop [50mA/ Ie]	Ud [V]	1,8
time delay before availability	tv [ms]	
Indicator [UB / Output]		• / •
Short circuit- overload-protection		• / •
Reverse polarity Protection		•

Conformity EMC IEC 60947-5-2 : 2000



EMC

ESD > 16kV

associated equipment

SNG-###AC...

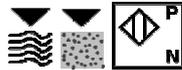
additional functionality

S / Ö NO / NC



Application

1...30

**M30**

application notes

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
 TM pulse modulation technique
 (High noise immune)

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

M30 model and/or dimension

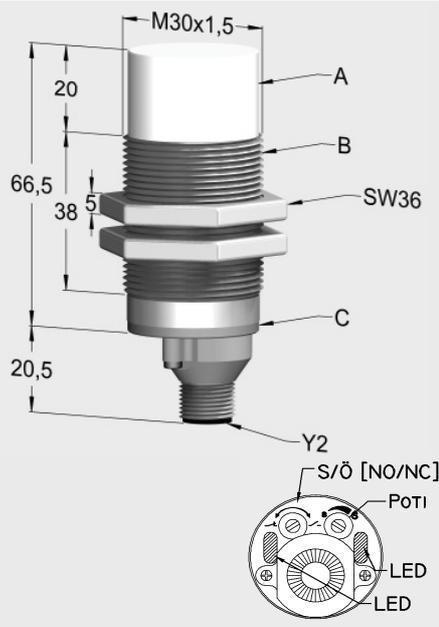
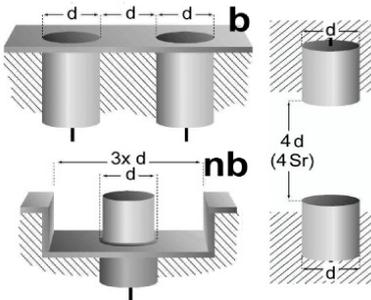
P output stage **P**NP, **N**PN,
 2-wire **AC/DC**, **X** (switchable)

b mounting **b**=flush
nb=non-flush

S **S**=N.O. **Ö**=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	Nr./No.
SK1-30-M30-PnbX-VA/PTFE-Y2	07095
SK1-30-M30-NnbX-VA/PTFE-Y2	07096

mounting [flush / nonflush]	[b / nb]	nb
operating distance	Sd [mm]	1... 30
Hysteresis	H [%Sr]	15
frequency of operating cycles	f [Hz]	100
repeat accuracy	R [%Sr]	5
Operating temperature range	[°C]	-30... 70
temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
protection class (EN 60529)		A, B: IP 66 / IP 67; C: IP 64
rated insulation voltage	Ui [V]	75 d. c.
material of housing		A. PTFE; B: VA; C: PBT/PE
utilisation category		DC13
connection		Z20; Z21

supply voltage range UB	UB [V]	10... 35
no-load supply current	Io [mA]	15
minimum operational current	Im [mA]	
operational current	Ie [mA]	300
off-state current	Ir [mA]	
voltage drop [50mA/ Ie]	Ud [V]	1,8
time delay before availability	tv [ms]	
Indicator [UB / Output]		• / •
Short circuit- overload-protection		• / •
Reverse polarity Protection		•

Conformity EMC IEC 60947-5-2 : 2000

EMC ESD > 16kV

associated equipment SNG-###AC...

additional functionality S / Ö NO / NC

Application

Power indicator:
 Green LED with steady light

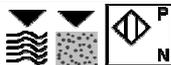
Output state indicator:
 Yellow LED lights up during switching operations

Pot:
 20-turn-trimmer without stop position.
 The sensitivity is increased by turning the potentiometer clockwise.
 The sensitivity is diminished by turning the potentiometer anticlockwise

Rotary switch:
 Right-hand position = N.O. function
 Left-hand position = N.C. function

Note:
 Please turn the switch towards the right or left-hand stop only until you feel a slight resistance, and no further. This will damage the switch.

2.30

**M30**

application notes

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
 TM 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,
 2-wire AC/DC, X (switchable)

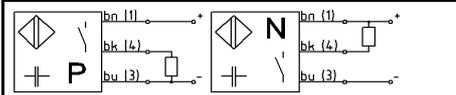
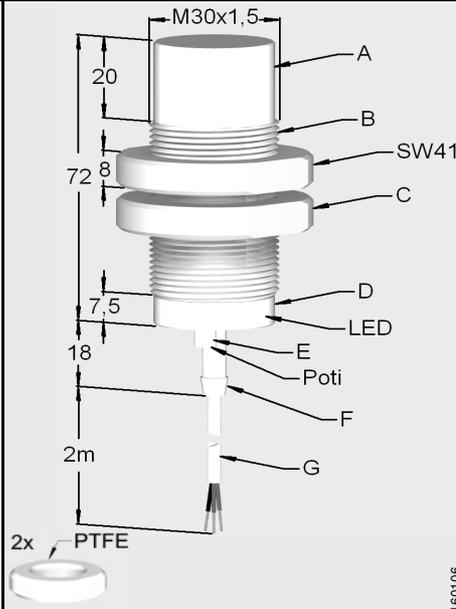
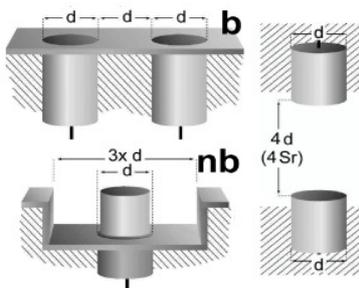
b mounting b=flush

nb=non-flush

S S=N.O. Ö=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	Nr./No.
SK1-30-M30-PNBS-CPTFE	07085
SK1-30-M30-PNBO-CPTFE	07086
SK1-30-M30-NNBS-CPTFE	07087
SK1-30-M30-NNBO-CPTFE	07088

mounting [flush / nonflush]	[b / nb]	nb
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operating distance	Sd [mm]	2... 30
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Hysteresis	H [%Sr]	10
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frequency of operating cycles	f [Hz]	100
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repeat accuracy	R [%Sr]	2
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Operating temperature range	[°C]	-30... 70
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temperature drift [range]	[%Sr] [°C]	15 [-5... 55]
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protection class	(EN 60529)	IP 67
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rated insulation voltage	Ui [V]	75 d. c.
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material of housing		A-G : PTFE
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utilisation category		DC13
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connection		2m / 3x 0,2mm ² PTFE
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supply voltage range UB	UB [V]	10... 35
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no-load supply current	Io [mA]	10
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minimum operational current	Im [mA]	
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operational current	Ie [mA]	300
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off-state current	Ir [mA]	
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voltage drop [50mA/ Ie]	Ud [V]	1,5
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time delay before availability	tv [ms]	
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Indicator [UB / Output]		- / • LED int.
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Short circuit- overload-protection		• / •
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Reverse polarity Protection		•
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Conformity	EMC	IEC 60947-5-2 : 2000
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EEC-direct.		CE
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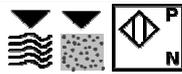
EMC		IEC 61000-4-6 (Testlevel 3V) Functional errors in partition of working frequency possible.
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associated equipment		SNG-###AC...
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additional functionality		
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Application		
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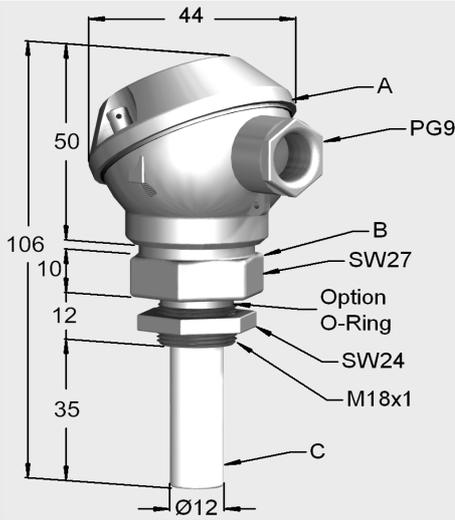


**DC
M18**

application notes

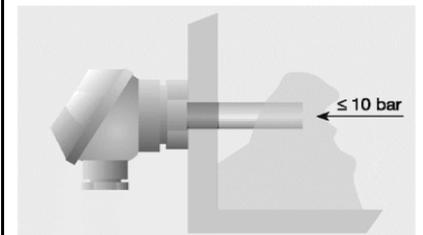
Type code (abstract)

- 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
- TM 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, 2-wire AC/DC, X** (switchable)
- b mounting **b=flush**
nb=non-flush
- S **S=N.O. Ö=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



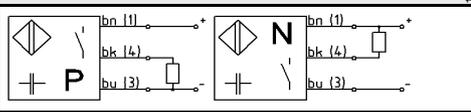
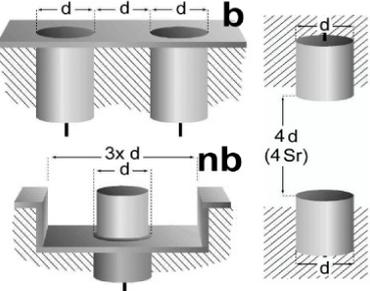
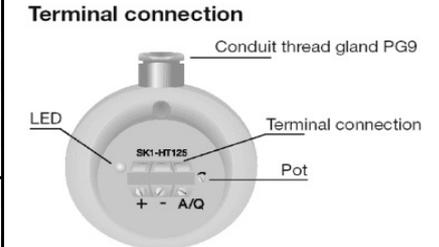
Sensor applicability
This capacitive level sensor can detect liquids and other pourable products, even when installed in high-temperature surroundings. A sensor of such caliber can be used where there is a difficulty in managing or controlling product flows or levels.

Application examples
Level sensing of nearly all products: viscous medium, grainy materials, powder and liquids.



Adjustment
The device is adjusted using the potentiometer. Note that a mean value between the switch-on and switch-off points of the tripped sensor must be set. In individual cases, when high temperature dynamic response and very adhesive media are involved, a slight re-adjustment may be necessary. The adjustment instructions for non-flush sensors on page 1.09 also apply.

Signal evaluation
The SNG series (page 12.01-12.03) is available for signal evaluation. Depending on the application involved, you can choose between a power supply, a power supply with timer function, or a MinMax control unit. This level sensor can also be run from a PLC.



Typ / Type	Nr./No.
SK1-HT125-FS-JM18-P-S-KL	07061
SK1-HT125-FS-JM18-P-Ö-KL	07062
SK1-HT125-FS-JM18-N-S-KL	07063
SK1-HT125-FS-JM18-N-Ö-KL	07064

mounting [flush / nonflush]	[b / nb]	
operating distance	Sd [mm]	
Hysteresis	H [%Sr]	
frequency of operating cycles	f [Hz]	5
repeat accuracy	R [%Sr]	
Operating temperature range	[°C]	-30... 125 [-30... 100]LED
temperature drift [range]	[%Sr] [°C]	
protection class (EN 60529)		IP 67 / IP 68 - 10 bar
rated insulation voltage	Ui [V]	75 d. c.
material of housing		A: Al-Druckguss; B: V2A; C: PTFE
utilisation category		DC13
connection		Klemmen
supply voltage range UB	UB [V]	10... 35
no-load supply current	Io [mA]	10
minimum operational current	Im [mA]	
operational current	Ie [mA]	100
off-state current	Ir [mA]	200
voltage drop [50mA/ Ie]	Ud [V]	2,7
time delay before availability	tv [ms]	
Indicator [UB / Output]		- / • LED int.
Short circuit- overload-protection		• / •
Reverse polarity Protection		•
Conformity	EMC EEC-direct.	IEC 60947-5-2 : 2000
EMC		
associated equipment		MA-M18/###/10-V2A
additional functionality		
Application		