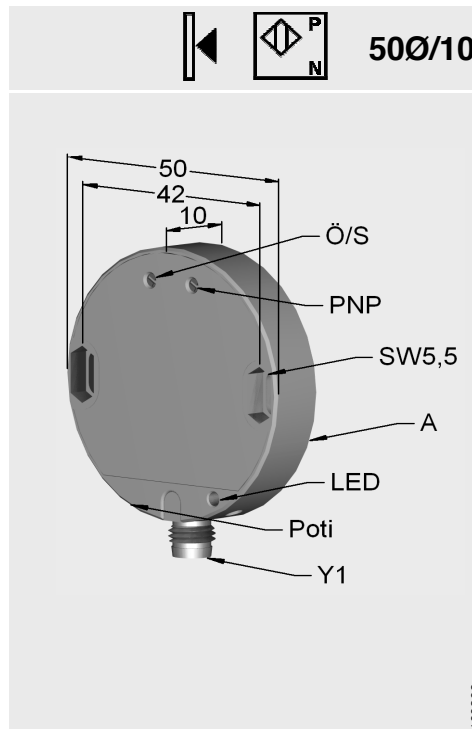
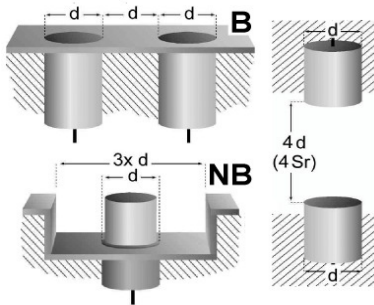


# Type code (abstract)

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, X (switchable)
B	mounting B=flush NB=non-flush
S	S=N.O. Ö=N.C. X=function switchable
POM	Housing Material POM
1M2-Y2	cable & connector: Y# = connector 1M2 = 1.2m cable length



Typ / Type	Nr./No.
Level Disc Sensor / Full Level	108 048
Level Disc Sensor / Low Level	108 045

## application notes

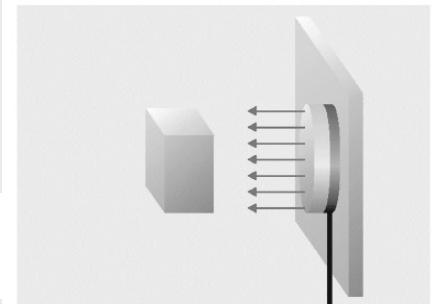
### Range of use

As a distance sensor with an adjustable sensing distance of up to 25 mm, the compact-size disk sensor, 50 mm diameter, is suitable for scanning plastics, glass, ceramics, wood, etc. This sensor's large active surface also enables it to be used as a fill level indicator, since it can detect liquids and granules through plastic or glass walls.

### Applications

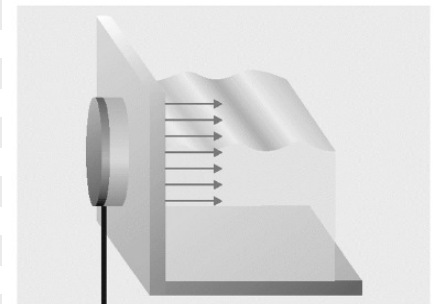
#### 1. Object detection

Detecting plastics, glass, ceramics, wood and all metals, etc.



#### 2. Fill level monitoring

Level control of liquids and granules like water, blood, cereals, coffee beans, etc.



Glass- or plastic wall max. 4 mm, depending on the material of the container wall.

### Adjustment

The sensor is adjusted using a flushmounted Potentiometer, adjustment instructions for flush sensor versions see on page 1.09.

### Signal evaluation

The SNG series (page 12.01-12.03) of sensor devices 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. The sensor can also be run from a PLC.

Mounting [flush / nonflush]	[ B / NB ]	B
Operating distance	Sn [mm]	2... 25
Hysteresis	H [%SR]	20
Frequency of operating cycles	f [Hz]	50
Repeat accuracy	R [%SR]	2
Operating temperature range	Ta [°C]	-30... 60
Temperature drift [range]	[%SR]	20 [-5... 55]
Protection class		IP 65
Rated insulation voltage	Ui [V]	75 d. c.
Material of housing		POM
Utilisation category		DC13
Connection		Z10; Z11
Supply voltage range UB	Ub [V]	10... 30
No-load supply current	Iomax. [mA]	< 15
Minimum operational current	Im [mA]	
Operational current	Ie [mA]	150
Off-state current	Ir [mA]	
Voltage drop	Ud @ Ie [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 : 2004
EMC		IEC 61000-4-6 (Testlevel 3V) Functional errors may occur in partition of working frequency 0.55-1.6 Mhz. SNG-###AC...
Associated equipment		PNP / NPN
Additional functionality		S / Ö NO / NC

### Application