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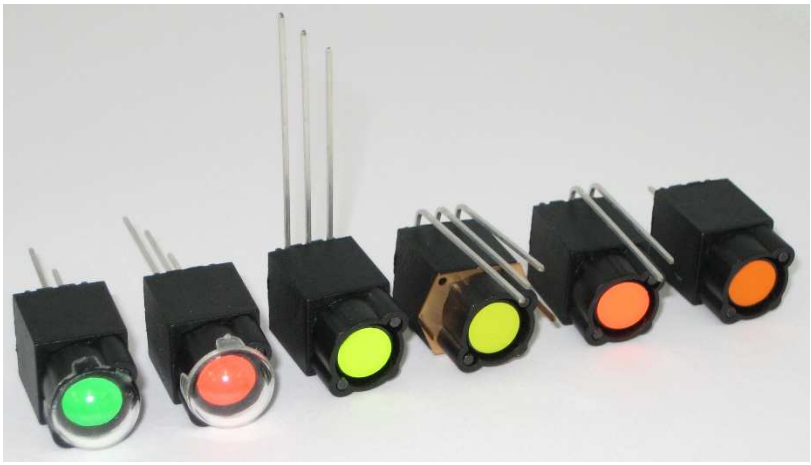
MAGNETIC FLIP DISK

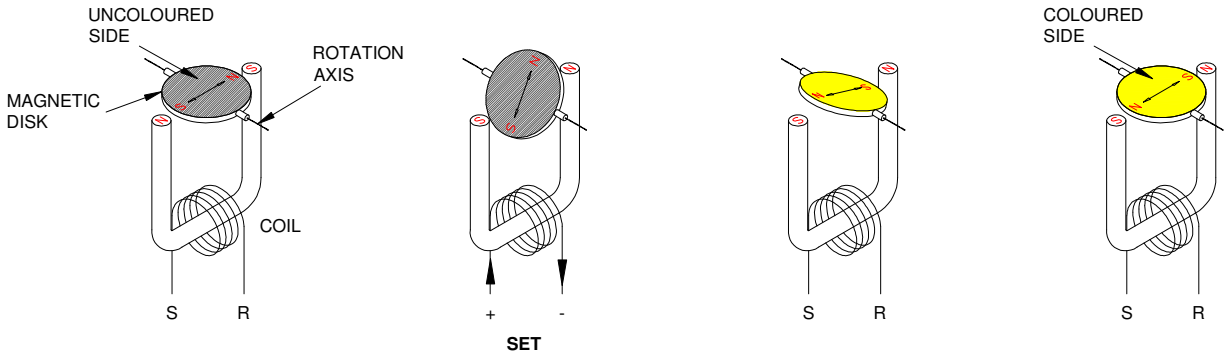
Magnetic flip disks are ideal for status indicators, industrial displays, portable instruments and any time high visibility has to be achieved with low power consumption.



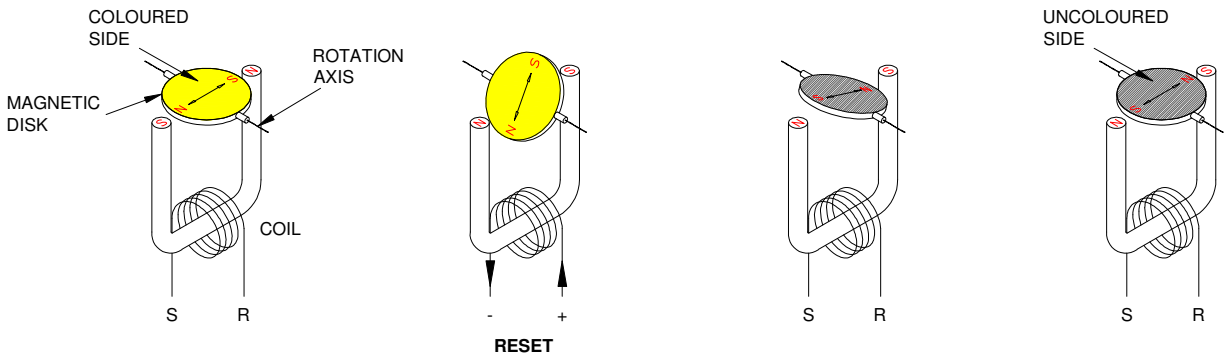
OPERATING PRINCIPLE

Magnetic flip disks are made up of a magnetic disk, of which one face is colored and the other black or coloured too, placed between the two poles of an electro-magnet. An electrical impulse makes the disk rotate showing a face, an opposite impulse shows the other face.
The magnetic circuit is designed so that no power is required to keep the disk in position.

With a positive impulse on **SET** the disk turns to the **colored** face



With a positive impulse on **RESET** the disk turns to the **black** face.



FEATURES

High visibility

As ambient brightness increases, the color-contrast of the flip disk display increases, providing excellent visibility both with low brightness and direct sun light.

High reliability

No need of maintenance, because there are no lamps, no mechanical elements nor parts that wear out.

Very low energy requirements

Thanks to the special technology used, magnetic flip disks do not need power to be visible, and very low power is required to change the display status.

COLOURS

Flip disk displays are available in different colors: yellow, red, orange, green, white.
Non-standard colors and fluorescent colors available on demand. Colors not standard on request.
The colored face is protected by a matte film anti-reflective and anti UV.
It is also possible to order disks with both colored sides.

DIMENSIONS

Dimensions	11,5 x 11,5 mm	
Diameter of magnetic disk	7 mm	
Total height	21 mm max	for the body
	24 mm max	inclusive of the rotation of the disk
Weight	4 g max	

ELECTRICAL FEATURES

Voltage max	125 Vcc
Current max	500 mA
Power max	750 mW
Energy max	1 Joule
Operating temperature	-40 C° ÷ +90 C°
Humidity (relative) max	95%
Position maintaining power	0 (zero)
External magnetic field	30 Gauss max
Coil resistance	12 Ohm ± 10% (each coil)
Minimum operating values:	
voltage min	4,5 Vcc
with current min	250 mA
and impulse length	1,5 ms
Life	20 x 10^6 changes

MAGNETIC FLIP DISK ORDERING CODE

1	2	3	4	5	6	7

1 **B** ..... magnetic flip disk (standard)
L..... magnetic flip disk with side pin

2 **Body color:**
N ..... black (**standard**)

3 **Disk diameter:**
07..... ∅ 7 mm

4 **Disk color:**
G ..... yellow (italian: Giallo) (**standard**)
R ..... red (it. Rosso)
A ..... orange (it. Arancio)
V..... green (it. Verde)
B ..... white (it. Bianco)
S..... special (on demand) also with both the colorful faces (to be specified in pos.7)

5 **Coils number:**
1..... 1 coil 2 pins (pins S and C)
2..... 2 coils 3 pins (pins S-C-R)

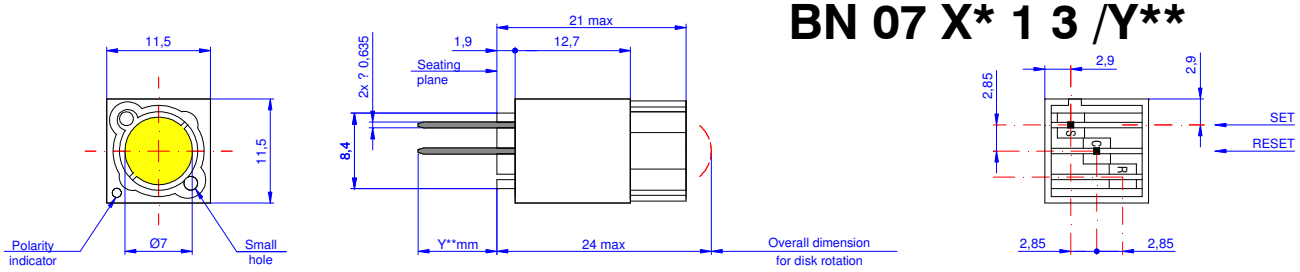
6 **Tipo di terminazioni:**
Tinned square pins 0.63 x 0.63 mm (RoHS- compliant)
3..... pins length 5 mm (standard) or 19 mm
(other lengthS on request)
5..... pins bended at 90° (see drawing)
8..... pins bended at 180°, with a bronze fixing plate (see drawing)
9..... pins bended at 180° (see drawing)

7 **Versioni speciali:**
/**nn**.... pins length is **nn** mm
/**S**..... inverted SET/RESET operating
(a **positive** impulse on **RESET** makes
the disk to rotate to the colored face)
/**F**..... **fluorescent** color
/**RV**... both sides colored
(eg /RV Red+Green)
the first color is related to the SET - the second to the RESET
/**C** ..... with a transparent protective cap
(see drawing at page 5)

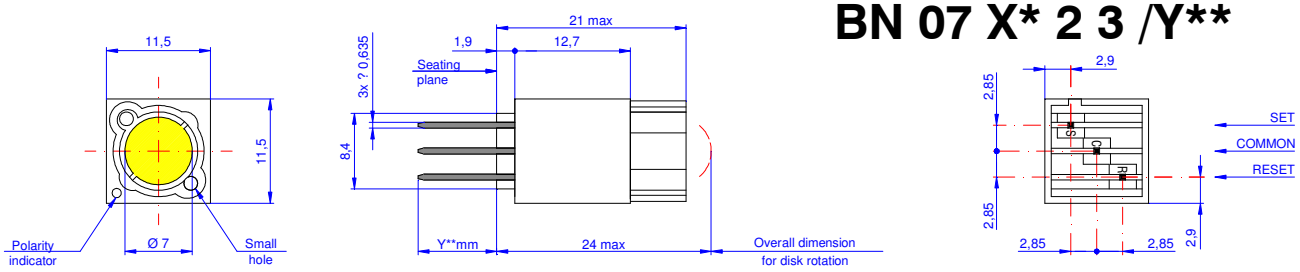
On request, for indicators of type L, you can have the pins in any of the 5 positions (S - C - R - 1- 2).
See drawing on page 6

Ordering example: **B N 07 S 2 5 /S /F /RV /C**
Magnetic flip disk
with special color of the disk
2 coils, 3 pins bended at 90°
inverted SET/RESET operating (**+** on reset ➔ Red face)
Red/Green fluorescent disk color with protective cap.

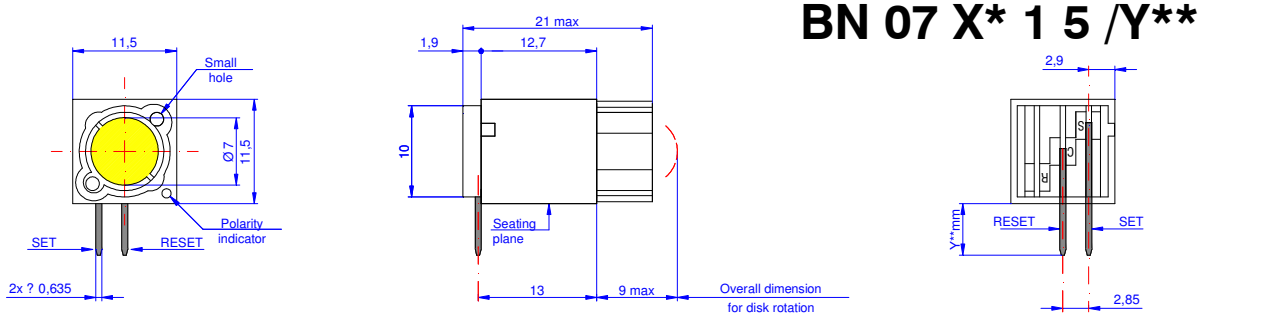
BN 07 X* 1 3 /Y**



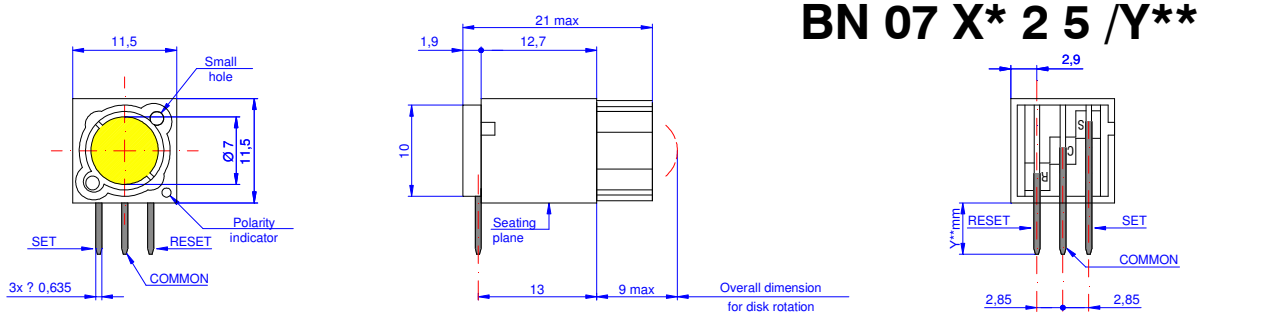
BN 07 X* 2 3 /Y**



BN 07 X* 1 5 /Y**

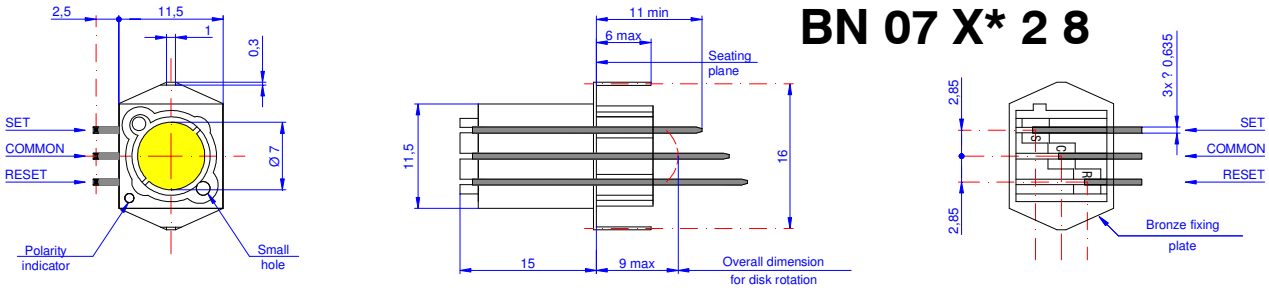


BN 07 X* 2 5 /Y**

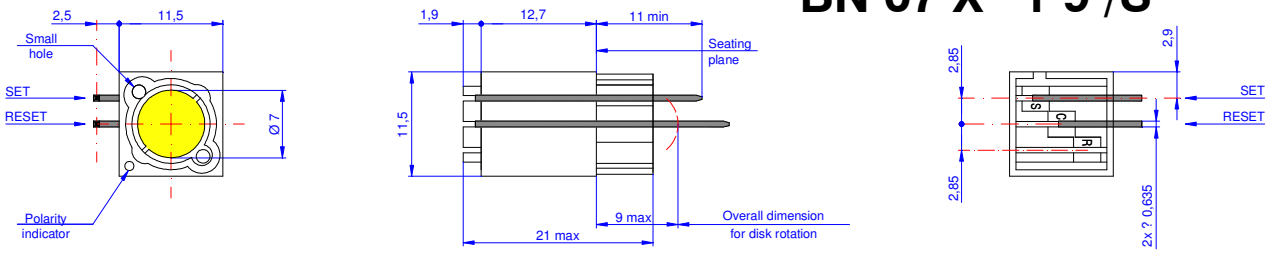


***X = colour of the disk - Y** = lenghth of pins**

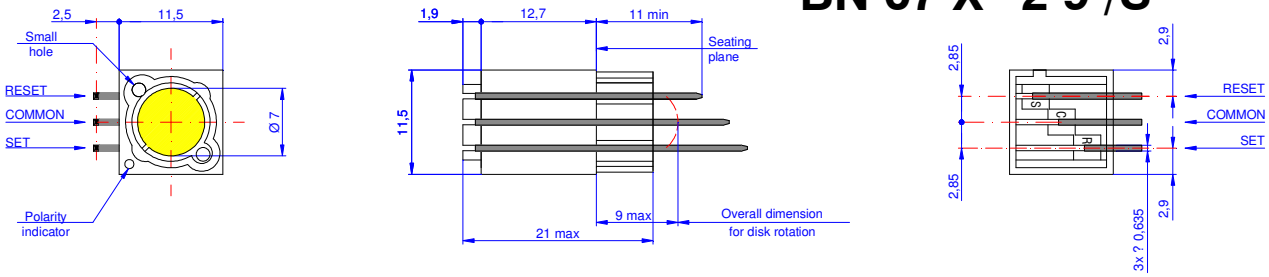
BN 07 X* 2 8



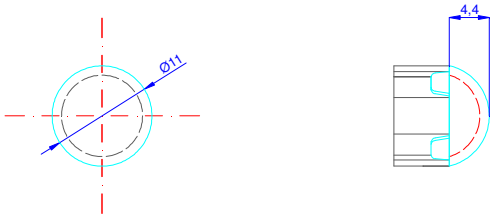
BN 07 X* 1 9 /S



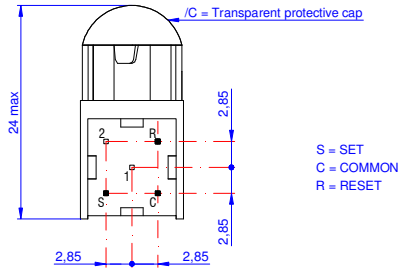
BN 07 X* 2 9 /S



***X = colour of the disk**

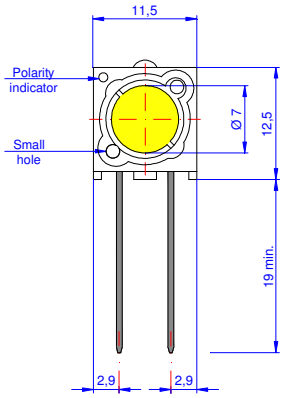


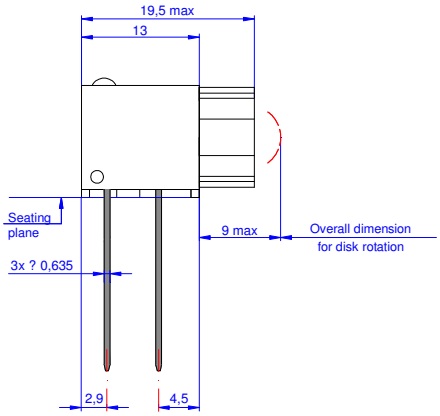
/C transparent protective cap

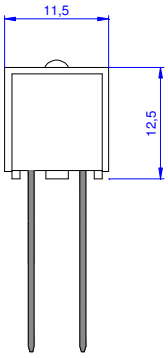


LN 07 X* 2 5

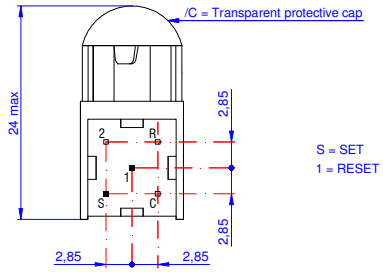
***X = colour of the disk**
/C = transparent protective cap

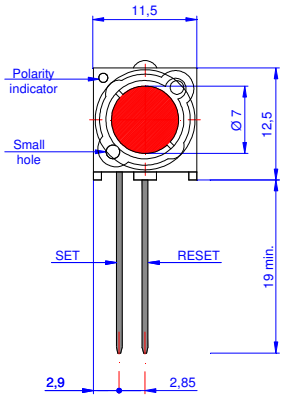
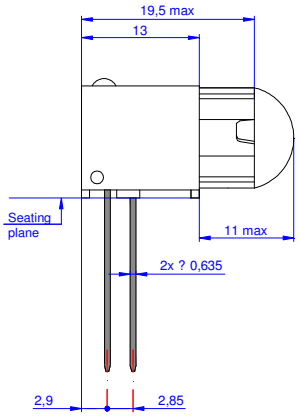
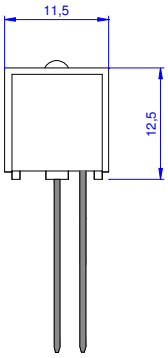
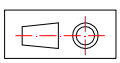






On request it is possible to have the pins in any of the 5 positions (S-C-R-1-2)



LN 07 X* 1 5 /S1 /C /F

***X = colour of the disk**
/S1 = 2 pins in positions ′S′ (SET) and ′1′ (RESET)
/C = transparent protective cap
/F = fluorescent colour