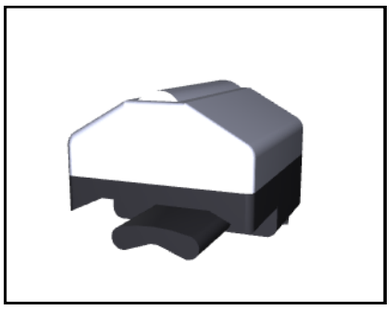
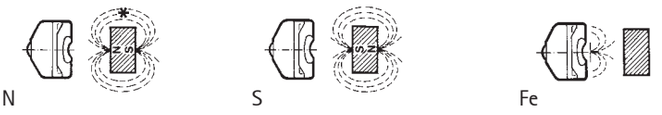
With Magnetic Actuator Colibri 490



- Contactless counting
- Miniature size
- Simple installation
- Protection class IP 65
- Maintenance-free operation

MAGNETIC ACTUATION





N = Permanent magnet North pole

S = Permanent magnet South pole

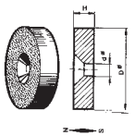
Fe = Iron (magnet in counter)

The counter is actuated by a magnetic field. With suitable magnets it is possible to achieve actuating distances of up to 50 mm. The direction of approach of the actuating magnet is not critical. When choosing a counter, it is important to observe the correct polarity of the actuator (see Figure).

ACTUATING MAGNETS

N

Actuating magnet



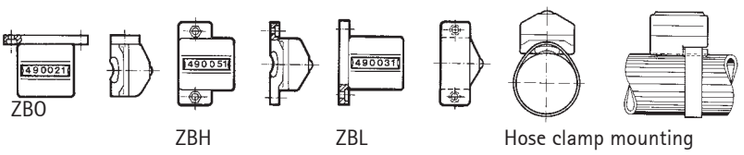
We supply suitable magnets for actuating this counter.
For mounting the magnet via its center hole only screws made of non-magnetic material may be used.

DIMENSIONS OF ACTUATING MAGNETS

Ordering code	D	d	H
3 532 023	15.2 mm	3.2 mm	6 mm
3 532 024	31.0 mm	5.3 mm	15 mm

ATTACHMENT

"Colibri" is available for several means of attachment:



ZBO ZBH ZBL Hose clamp mounting

ZOB = Counter without attachment plate
ZBO = Counter with attachment plate top

ZBL = Counter with attachment plate left
ZBH = Counter with attachment plate behind

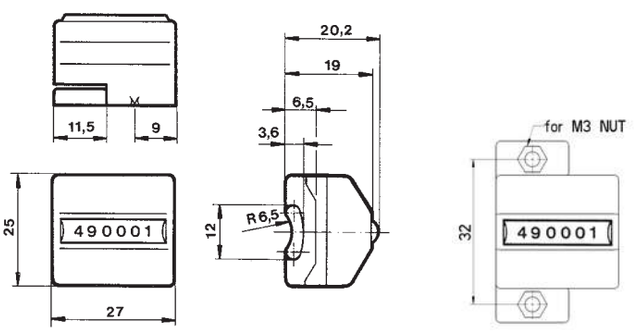
Colibri 490

Technical data

TECHNICAL DATA

Display	6 or 7-digit, depending on verison
Digit height	4 mm, visual
Operating temperature	- 10 ... + 50 °C
Storage temperature	- 40 ... + 60 °C
Mounting	depending on version
Mounting position	any
Protection class (DIN 4050)	IP 65
Vibrostability	20 m/s² (10...150 Hz) acc. to IEC 068-2-6
Shock stability	2.000 m/s² (3 ms) acc. to IEC 068-2-27
Maintenance-free operation	10 million increments
Case	Makrolon
Weight	approx. 12 g
Counting mode	adding
Actuation	with conventional permanent magnets
Actuating distance	Fe-version 0.5 mm N and S magnets see order information
Response flux density	> 10 mT (100 Gauss)
Release flux density	< 4 mT (40 Gauss)
Actuating speed	2 m/s
Counting frequency max.	20 digits/s
Reset	none

DIMENSIONS



Dimensions in mm

With a ZBH Plate

3D CAD models are available on request.

ORDER INFORMATION

		Ordering code	Ordering code	Ordering code
Counter without attachment		North pole	South pole	Fe
accessories	6-digit	0 490 001	0 490 002	0 490 003
	7-digit	0 490 004	0 490 005	0 490 006

Accessories

Attachment plates	ZBO 2 490 011	ZBL 2 490 012	ZBH 2 490 005
Hose clamps	20 ... 32 mm 3 515 055	25 ... 40 mm 3 515 056*	40 ... 60 mm 3 515 057

Actuating magnets (North pole)

Distance 10 mm 3 532 023	Distance 30 mm 3 532 024*	Magnetic plate 6 mm 3 532 025*

* on request