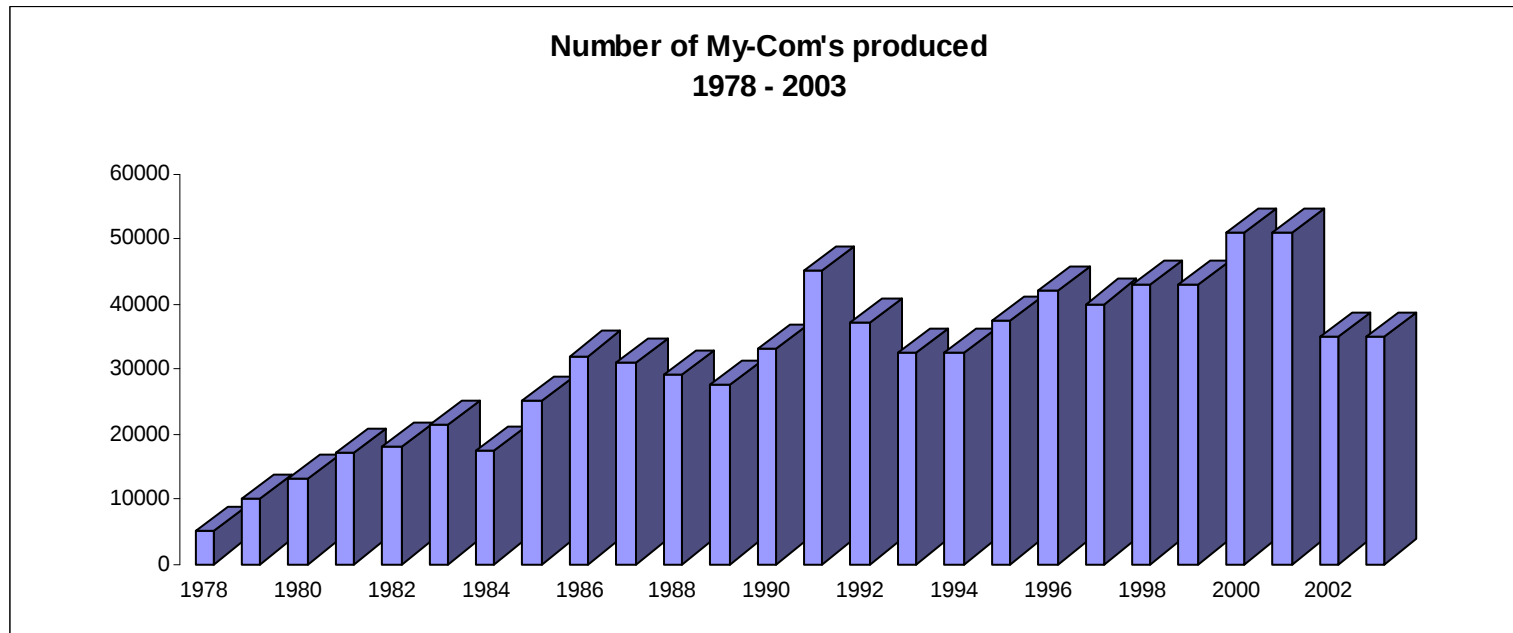


The My-Com precision switch

The ultra precise tactile probe

1μ Repeat accuracy +/- 0,001 mm



3 moving parts only

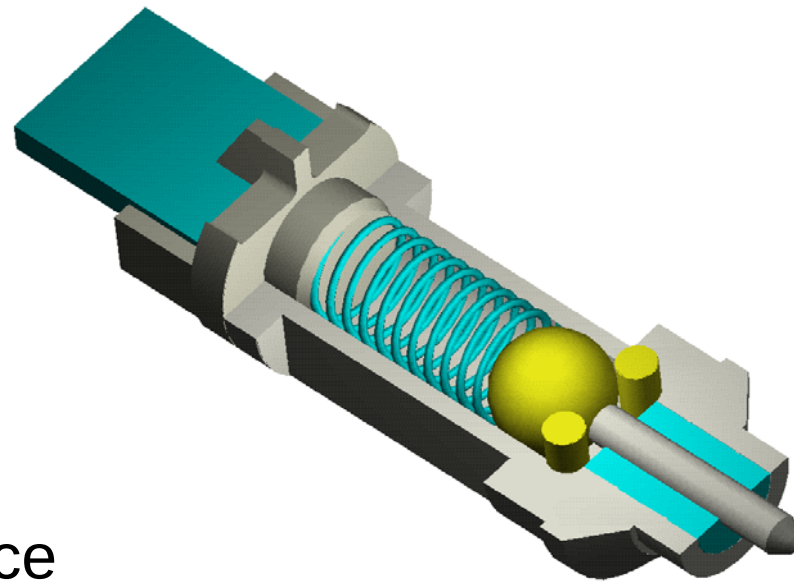
- ▶ Activating pin
- ▶ Contact ball
- ▶ Steel spring

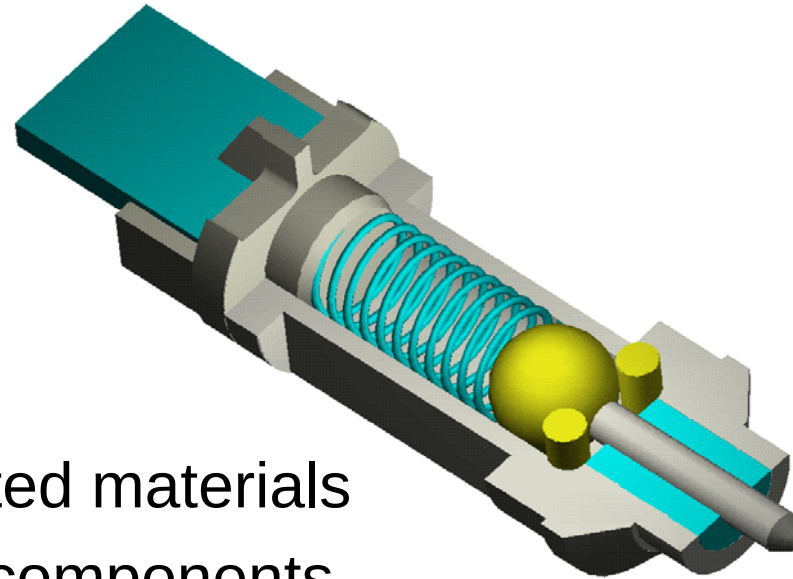
Movements

- ▶ short
- ▶ linear

Small activating force

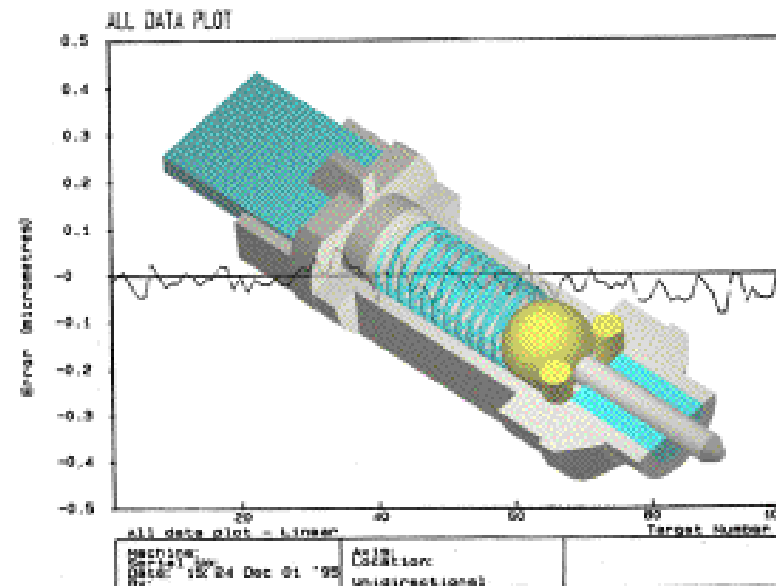
- ▶ 30 g to max 100 g





- Carefully selected materials
- Highly precise components
- 10 million switching operations
- Forcefully commutating contacts

- Gold plated contacts
- Small contact area



- After 100 successive measurements taken
- Switching point deviation less than $\pm 0,1\mu$
- More accurate than specification sheet

Mount on sturdy fixture

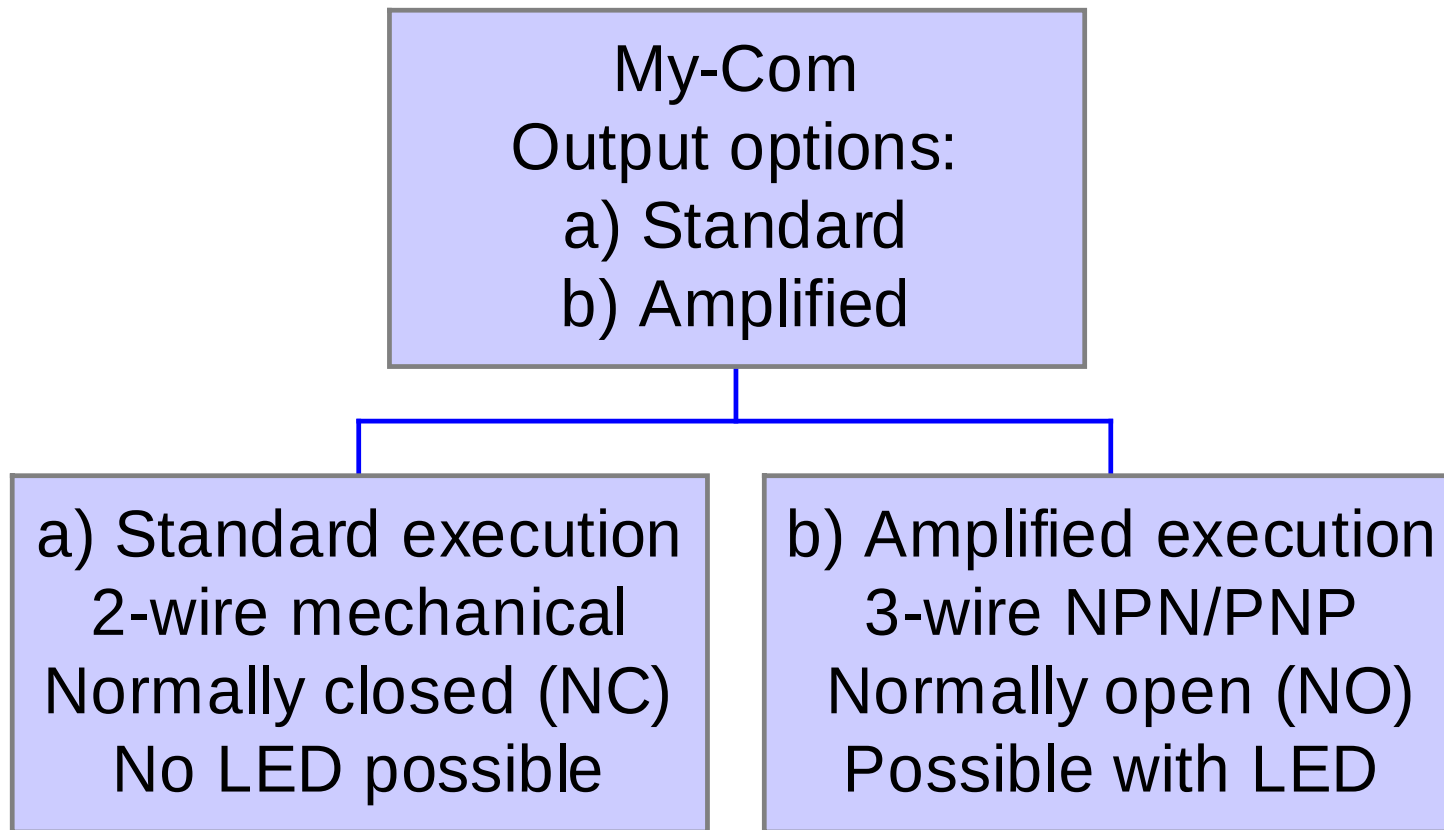
- ▶ Assures accuracy

Install carefully

- ▶ Use appropriate tools
- ▶ Obey max. permissible torque

Route cables properly

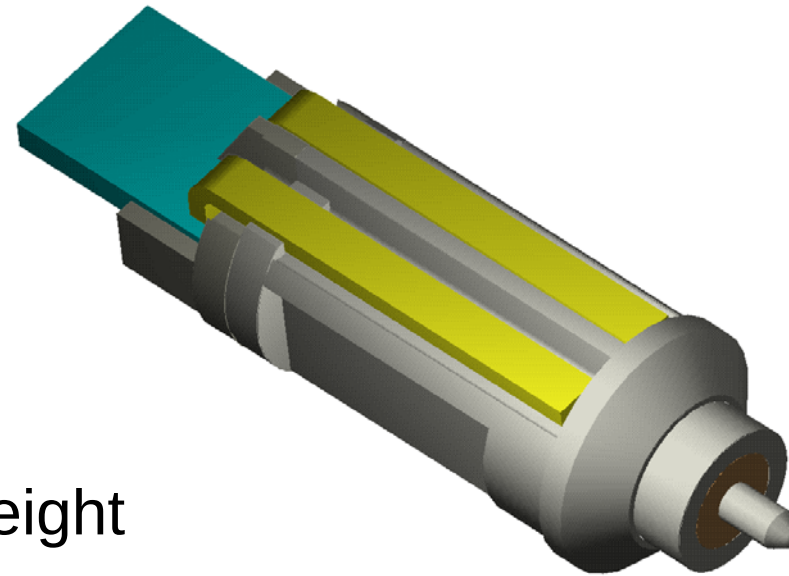
- Obey recommended bending radius
- Avoid pull and torque on cable



- **Standard execution without electronics**
- Normally closed (NC) mechanical contacts
- Max supply voltage 15 V DC
- Max load current 2 mA
- Excessive load currents create sparks which leads to deterioration of contact surfaces
- On-resistance of closed contacts increases
- Repeat accuracy and performance deteriorate
- Lifetime of My-Com's decreases

- 3-wire execution with integrated electronics
- Normally open contacts (NO)
- 5 - 36 VDC supply voltage
- Max load current 50 mA
- Free running diode integrated
- Optional LED output state indicator
- Not short circuit proof!

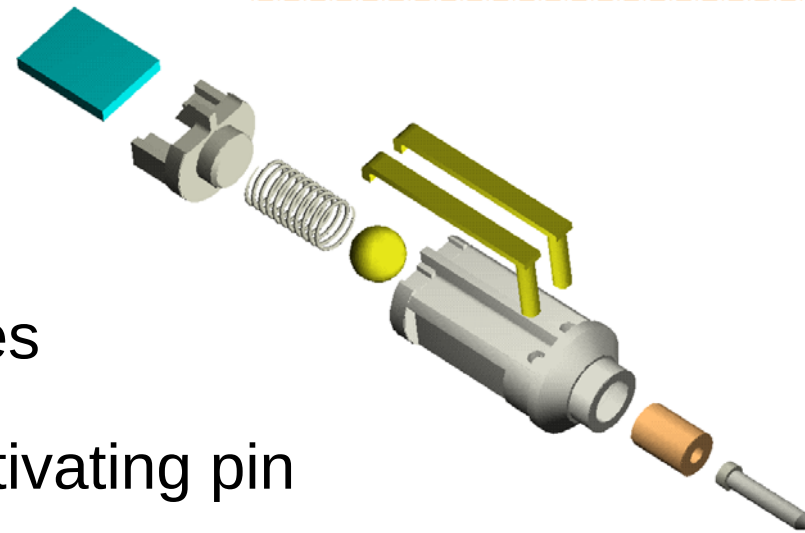
- Small
- Compact
- Small in weight
- Easy to integrate



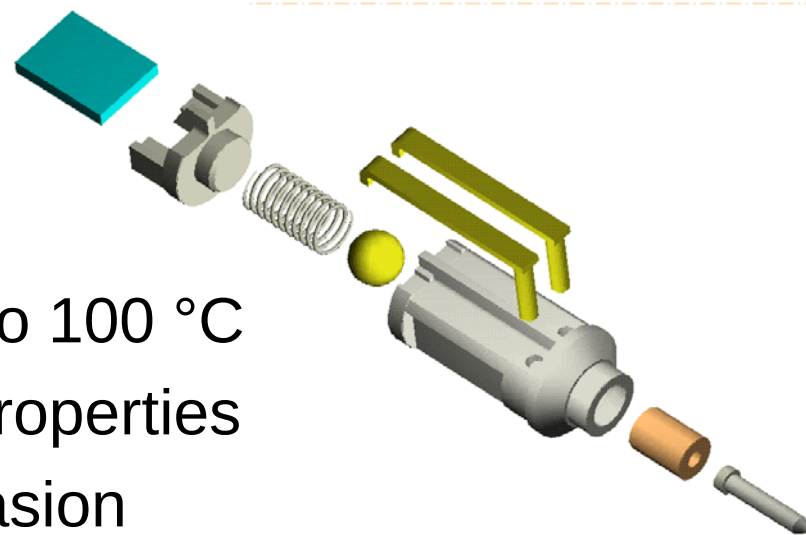
High performance industrial ceramics
Zirconium oxide ZrO_2

- Break proof
- No chipping
- Self lubricating properties

Metal retaining ring for activating pin



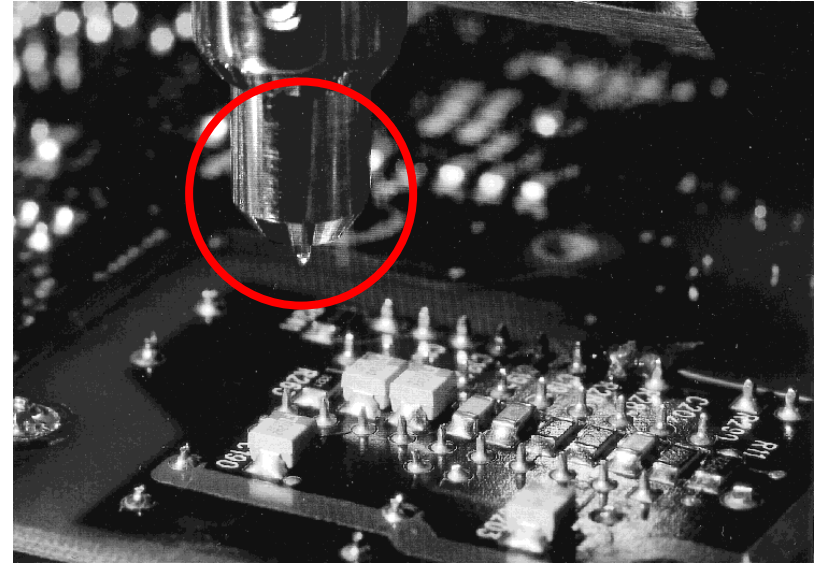
- Delrin (POM)
- Heat resistant up to 100 °C
- Excellent gliding properties
- Little prone to abrasion
- High life expectancy



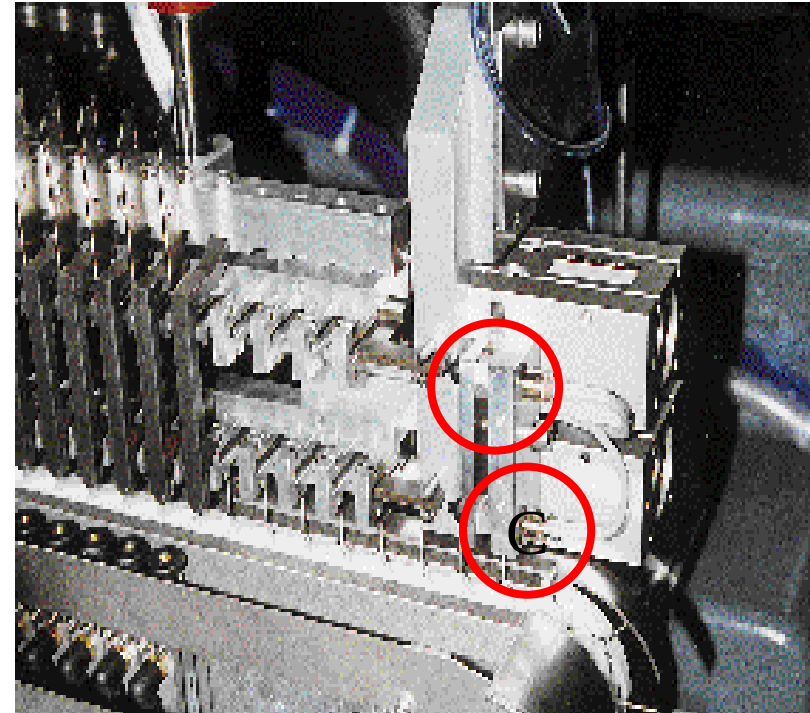
- Reference point setting on X/Y tables
- Mating accuracy monitoring in molding tools
- Integration into measuring probes
- Calibration of measuring devices
- Quality control
- Check of surface roughness
- Counting of labels on carrier tapes
- Applications requiring high numbers of switching operations

- Electronics industry
- SMD pick & place robot
- Component height check
- Accuracy < 1/10 mm
- Clean environment

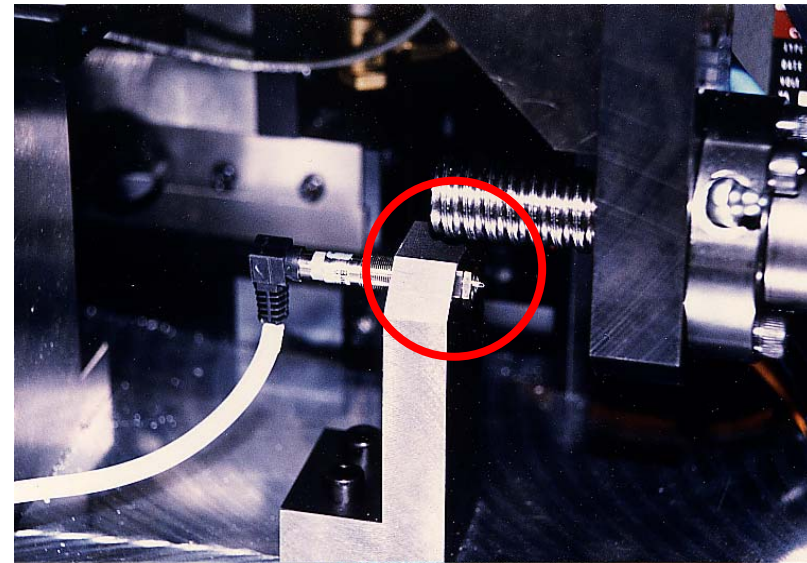
- My-Com A30/80
- Small and compact
- Conical housing
- Small activation force



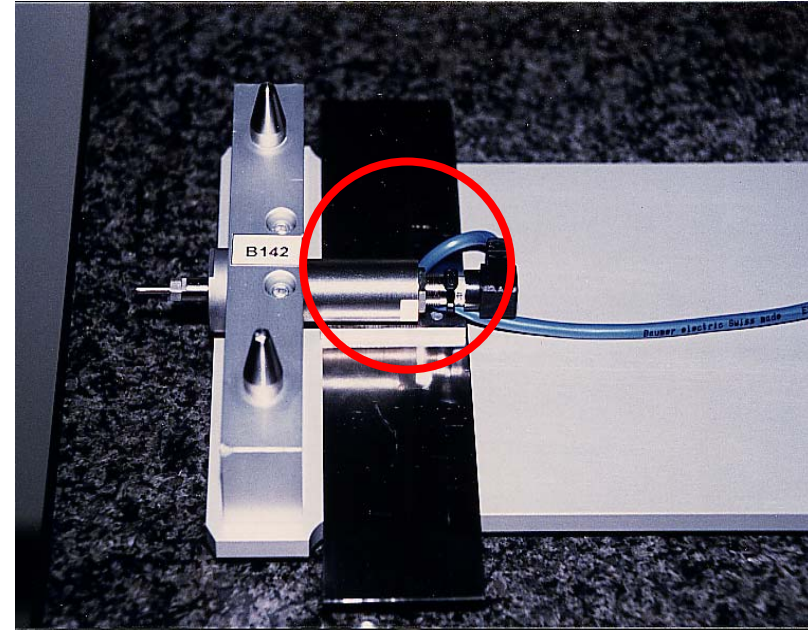
- Textile industry/weaving machine
 - Anti jamming device
 - Accuracy < 2/10 mm
 - 200 cycles per minute
 - Dusty environment
-
- My-Com M
 - Protection class IP 67
 - Long overrun
 - Zirconium oxide (ZrO₂) tip



- Turning of metal parts
- Production of dental instruments
- Positioning/insertion of finished components of 0,6 mm diameter
- Reference point setting
- Tolerance 0,05 mm
- My-Com G75P/S35L

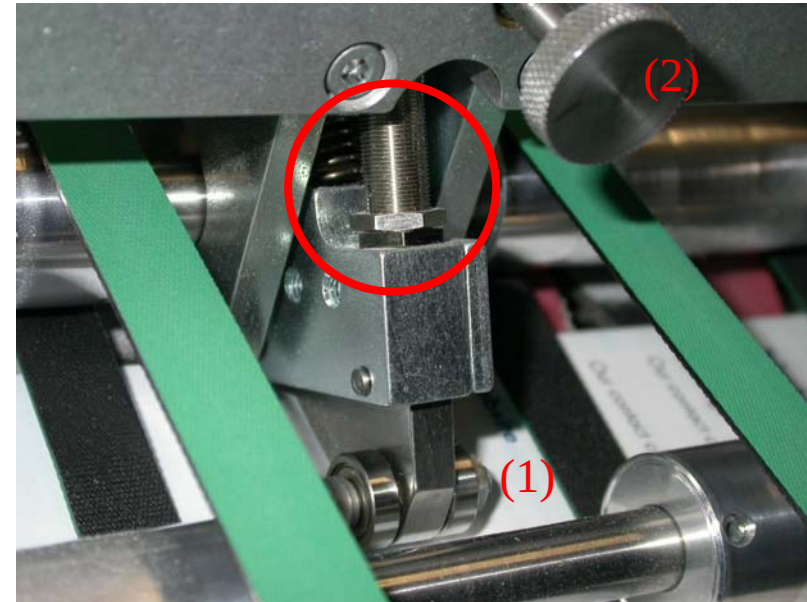


- Industrial handling
- 3-axis tactile probe
- Mounted on robot arm



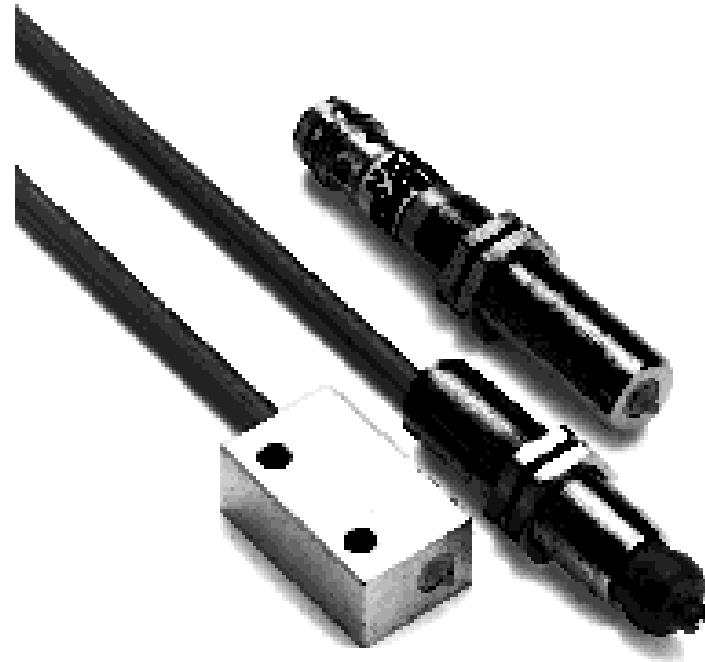
- Determination of length, width and depth of differently sized recesses
- Accuracy required 0,001 mm
- My-Com BS (with snap-on connector)

- Printing industry
- Double sheet control
- OFF status:
just one paper there
- ON status:
2 or more papers there



The printing media is fed through between a pivoting roll (1) and a second roll underneath. Roll (1) is mechanically connected with the My-Com. The Operator adjusts screw (2) so that the My-Com is off with one single sheet only. If there are 2 or more sheets there the My-Com triggers an alarm.

- Round housing with fine thread
- Flat housing for side mounting
- Special executions
- Connector versions
- S35/L (M8 cap nut)
- My-Com B (snap-in)
- Peripheral equipment

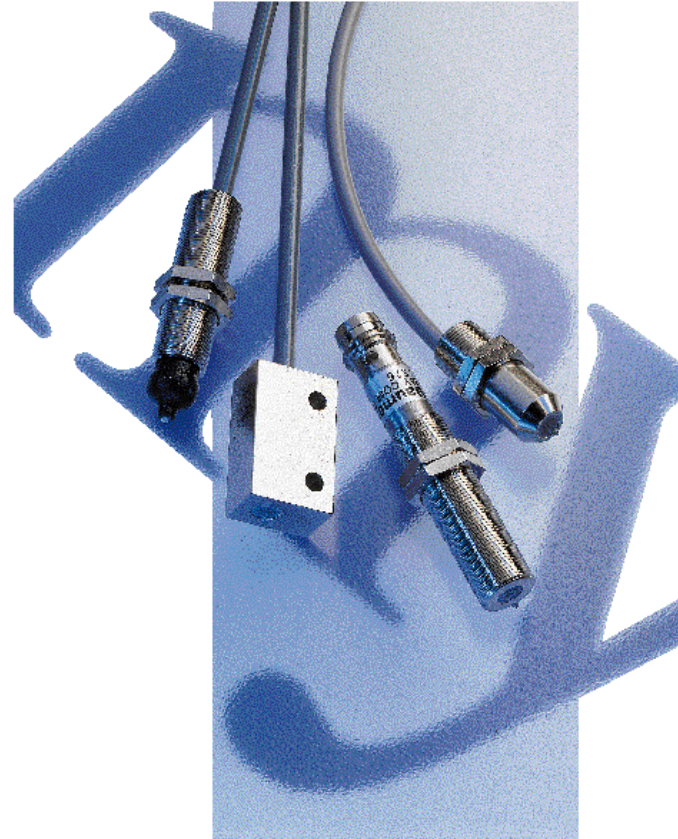


Special executions

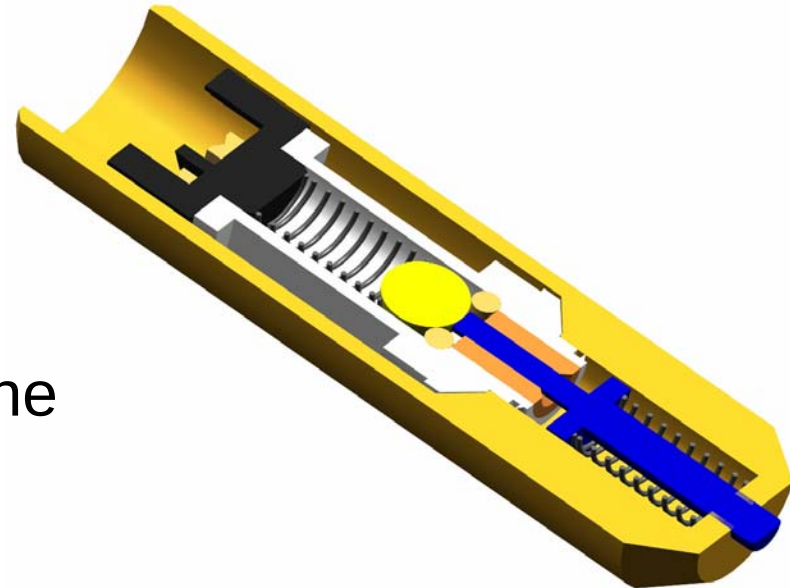
- ▶ Stainless steel tip
- ▶ Sealed with ruby tip
- ▶ Protection class IP 67

With electronic output

- NO switching function
- Higher load currents
- LED state indicator
- Contact protection



- My-Com N
- Flat stainless steel tip
- Tip and contact ball are “pre-loaded” using two steel springs instead of one
- Elimination of pre-run of a standard My-Com



The My-Com precision switch

- The ultra precise tactile probe
- 1μ repeat accuracy (+/- 0,001 mm)
- Lightweight and compact
- Reliable with an outstanding life expectancy
- Over one million units sold worldwide
- Just what you have been looking for?

- OMRON
- D5B tactile switches
- sizes M5, M8 & M10
- NC versions only
- Accuracy 10μ
- IP 67



- Euchner
- EGT 1 series
- Accuracy 10μ
- Sizes
 - ▶ M14 x 1
 - ▶ M18 x 1
- IP67



The My-Com precision switch

- www.metrol.co.jp
- Highly precise „contact sensor“
- 0,5 μ repeatability



- „Contact sensor“
- „Low cost“ version
- 20 μ repeatability

The My-Com precision switch

- Let's rush to Baumer electric
- I must have it!
- This My-Com

