# UNIVERSAL MICRO TOUCH

NIKKEN

3D Electronic Edge Detector of Basic Point

- **Precision Touch Sensor**
  Repeatability ±2 micron.
- **Long Safety Over-Travel Distance protects from damage.**   X , Y= ±7mm   Z= 3mm
- **Red lamp and electronic beep sound notice the touching position.** When touching to the work piece, red lamp immediately lights up all around. The one with BT shank gives the electronic beep sound also to make double notices.

How to obtain touching position
Make the stylus slowly get near to the measuring surface of work piece and the red lamp will light at the moment when the former touches the latter. A position where 3mm is compensated from that position (because of 6mm stylus diameter), is the touching position to be obtained.
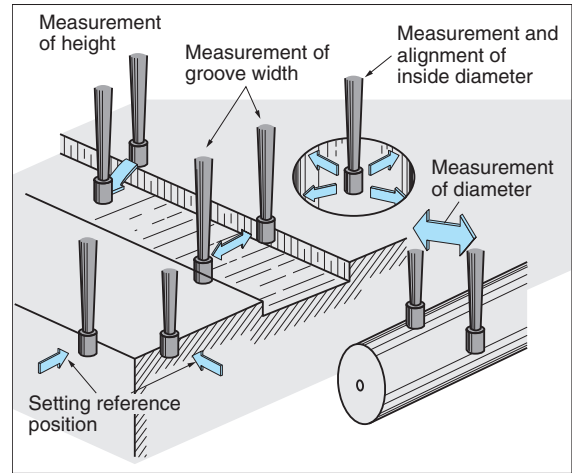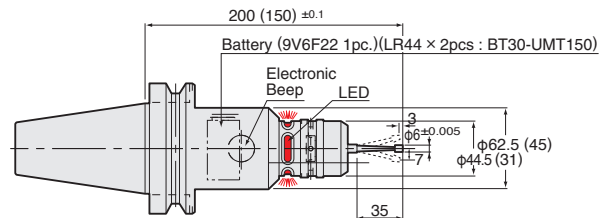
Straight Shank **UMT** MICRO TOUCH

UMT

Battery(quintuple cell type 1.5V : 2pcs.)

φ6±0.005
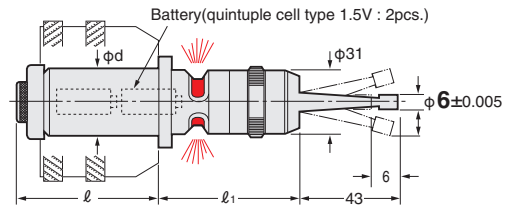
Code No.	φd	ℓ	ℓ₁	Weight (kg)
S20-UMT	20	68	61	0.4
S32-UMT	32	65	65	0.7
MT2-UMT	MT2	66.5	75	0.4

★Ball type φ6mm stylus is also available : **S32-UMTB**

BT-UMT-W MICRO TOUCH

BT-UMTH
MICRO TOUCH for ring sensor
For Machining Centre with ring sensor, the electric circuits are different from standard, please purchase this through M/C Builder.

200 (150) ±0.1

Battery (9V6F22 1pc.)(LR44 × 2pcs : BT30-UMT150)

Electronic Beep   LED

φ6±0.005

φ62.5 (45)
φ44.5 (31)

Dimensious in parentheses are same as **BT30-UMT150**

TAPER	Code No.	Weight (kg)
No.30	**BT30-UMT200W**	2.1
	-UMT150	1.0
No.40	**BT40-UMT200W**	2.7
No.50	**BT50-UMT200W**	5.0

★Ball type φ6mm stylus is also available : **BT40-UMTB200**
★**IT40-UMT200W** and **IT50-UMT200W** are also available.

NEW

BT30-UMT

φ6 ±0.005   φC1 φC
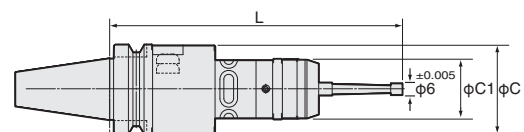
TAPER	Code No.	L	C	C₁
No.30	**BT30-UMT150**	150	45.0	31.0
	BT30-UMT200W	200	62.5	44.5

UNIVERSAL MICRO TOUCH with INTERNAL CONTACT SYSTEM NIKKEN

Internal Contact System - can be used for not conductive work piece.

■ Precision Touch Sensor
  Repeatability ±2 micron.

■ Long Safety Over-Travel Distance protects
  from damage.   X , Y= ±7mm   Z= 3mm

■ Not conductive work piece can be measured. Internal
  contact system is built-in.
  Blue lamp and electronic beep sound notice the
  touching position. After touching to the work piece, blue
  lamp lights up all around. The one with BT shank gives
  the electric beep sound also to make double notices.

How to obtain touching position
Make the stylus slowly get near to the measuring surface of work piece
and the blue lamp will light at the moment when the former touches the
latter. A position where 2mm is compensated from that position (because
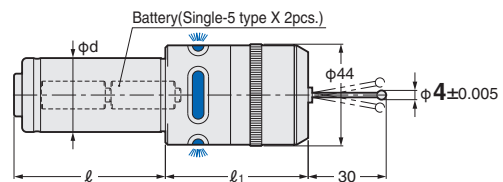of 4mm stylus diameter) , is the touching position to be obtained.

Photo shows with ruby stylus (option).

Straight Shank UMTX MICRO TOUCH

UMTX
Ruby stylus is available as an option.

Battery(Single-5 type X 2pcs.)

$\phi 44$ $\phi 4 \pm 0.005$

Code No.	ϕd	ℓ	ℓ_1	Weight (kg)
S20-UMTX	20	68	64	0.5
S32-UMTX	32	65	64	0.8
MT2-UMTX	MT2	66.5	64	0.5

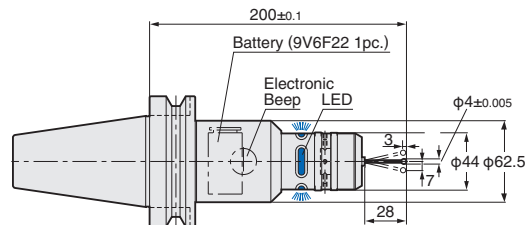★Battery is supplied as standard.
★The delay of the system is within 0.01mm, because of the internal contact system.

BT-UMTX MICRO TOUCH

BT-UMTX
Ruby stylus is available as an option.

200±0.1

Battery (9V6F22 1pc.)

Electronic
Beep   LED

$\phi 4 \pm 0.005$

$\phi 44$ $\phi 62.5$

TAPER	Code No.	Weight (kg)
No.30	BT30-UMTX200W	2.3
No.40	BT40-UMTX200W	2.9
No.50	BT50-UMTX200W	5.2

★Battery is supplied as standard.
★The delay of the system is within 0.01mm, because of the internal contact system.

Specification

Measuring Pressure	X, Y = 0.35N Z = 0.8N	
Battery	Straight Shank	An alkali dry cell Model 5 1.5V 2pcs
	BT Shank	Manganese dry cell 6F33 X 9V 1pcs
	36 Hours	
Stylus	Standard : φ4mm steel stylus Option : φ4, φ3, φ2 and φ1 mm ruby stylus The ruby stylus can not be ordered alone. Please order the Micro Touch with the ruby stylus. When ordering, please add (RB○) at the end of the Micro Touch Code No. **e.g. BT30-UMTX200W (RB2)** └With φ2mm ruby stylus **S32-UMTX (RB4)** └With φ4mm ruby stylus	