



TOWN OF HUDSON

Engineering Department



12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6008 • Fax: 603-816-1291

TO: Brian Groth, Town Planner
Planning Board

FROM: Elvis Dhima, P.E., Town Engineer

DATE: April 21, 2023

RE: Request for Approval of Funds from Corridor Accounts

We have recently been evaluating and researching the next generation of pedestrian push button technology. At this time we have the opportunity to upgrade one of our existing pedestrian push button system with real time transport protocol (RTB) pushbutton and acoustic devices, which are more technology friendly and easier to operate for people with vision limitations. In addition, the new technology provides advanced detection through the user's phone bluetooth or phone app.

The proposed system will enhance access and safety and is recommended by the Engineering Department and Public Works Department. We are asking the Planning Board to approve and recommend the expenditure to the Board of Selectmen.

Motion:

To approve and proceed with the Pushbuttons and Acoustic Devices at Library & Ferry Street intersection, using Corridor Account #: 2070-000-086, not to exceed \$8,072.00.



1 Morgan Way
 Cape Neddick, ME 03902
 (207) 361-1234
 www.ElectricLight.net

QUOTE

Customer
Town of Hudson Engineering 12 School Street Hudson, NH 03051

Quote	2345
Date	4/19/2023
Terms	Net due in 30 days

Project					
Unit	Qty	Item	Description	Rate	Amount
	8	EA	Supply and install 8 RTB pushbuttons at Library / Ferry.		
			RTB Pushbuttons and Acoustic Devices	1,181.00	9,448.00
	16	HR	2- Traffic Technician w/ Service Vehicles	160.00	2,560.00
	1	EA	Pilot Program Discount	-3,936.00	-3,936.00
Signature _____ Date _____				Total	\$8,072.00



PUSH BUTTONS
for traffic lights

RTB





More safety for everyone

User-friendly signals

The pedestrian is undeniably the most vulnerable participant in road traffic. Municipalities and all other responsible parties must therefore develop solutions that particularly take into account the situation and the needs of pedestrians. The focus of this is on conveying a real sense of safety, despite the often stressful situation on our roads.

Numerous research studies have shown that this objective can be principally achieved by providing clear information at traffic light installations. Pedestrians feel well protected when traffic light installations are easy to use and give reliable information and clear signaling. In addition, with this they are more likely to be patient enough to wait for the green light phase, so that fewer of them will cross against a red light.

Award-winning technology

The resounding market success of the push button from RTB was not only creating a great stir in the professional world. As the crowning success of this impact, so to speak, the push button was honored with two renowned awards for its design:

- red dot design award
- iF product design award



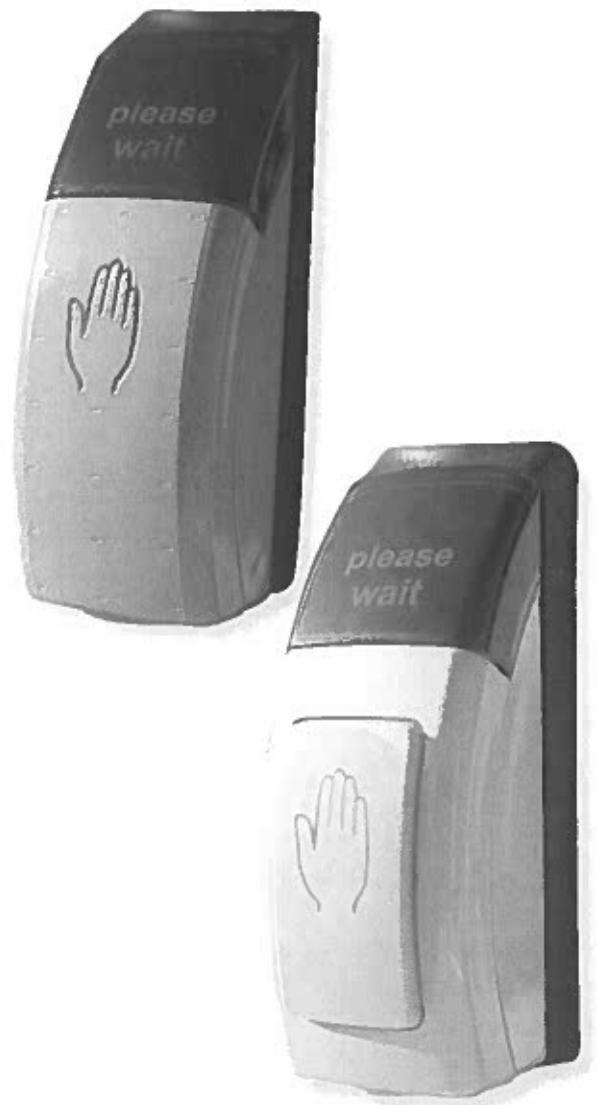
Two types of devices

Sensor push button

The capacitive-sensor push button with a large request surface has proven itself thousands of times. The self-explanatory design facilitates the use of a traffic light signal system by all pedestrians. Optionally, the sensor push button, which is already used in more than 30 countries and is compliant with all common standards, has a floating contact. The device automatically adapts to the prevailing ambient conditions (e.g., rain, snow or ice); its functionality is always ensured.

Mechanical push button

Type M is a mechanical, large-area push button that was also developed based on the sensor push button design. This push button is also available with or without an acknowledgement field, as well as in different voltage variants.





Technology and use

Standards and guidelines

Among others, RTB fulfills the following standards and guidelines:

- DIN VDE 0832-100, and Hd638S1
- DIN VDE 0832-200, and EN50293:2000
- DIN 32981, and ISO 23600:2007
- ÖNORM V2100, and V2101
- CSA and MUTCD

Technical information

Housing

- PC Makrolon®
- Color: yellow (RAL 1007) with a red cap, other colors possible
- Protection Class II in accordance with DIN EN 61140
- Protection Class IP 55 in accordance with DIN EN 60529

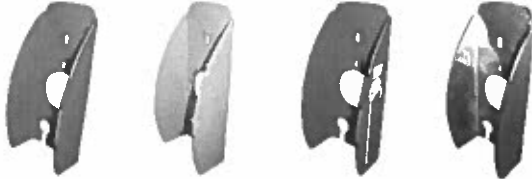
Voltage versions

- 230 V AC or 160 V dimming function
- 110 V AC
- 40 V AC or DC, or 27 V dimming function
- 24 V AC or DC
- 10 V DC

Internationally compatible and individually deployable

Today, RTB push buttons are in use around the world. Technical solutions of this type must meet a wide range of requirements; ultimately, the infrastructures and traffic problems are very distinct. That's why RTB focuses on a modular structure for its push buttons. The integration of the equipments is effortless. Reliable technical function, vandal resistance, excellent design and easy installation are other key benefits of RTB products.

For special locations



- safety bar prevents rough vandalism
- color of the stainless steel protection system freely selectable
- imprint of individual designs on both sides of the safety bar possible
- tactile information can be affixed to both sides



Variants

RTB offers 9 types of push buttons, which differ in their assembly of the integrated moduls. Thus it is easy to choose the right push button for every traffic light.

Functional variants	Cover symbol	Signal request	LED acknow-	Tactile signal ledgement	Covered push button	Orientation signal in the push button
Push button type A		✓	✓			
Push button type B		✓				✓
Push button type C				✓	✓	✓
Push button type D				✓		✓
Push button type E		✓	✓	✓	✓	✓
Push button type F		✓	✓		✓	✓
Push button type G					✓	✓
Push button type H		✓			✓	✓
Push button type I		✓		✓	✓	✓

* Also requires the acoustic unit



Variants

NFC push button type

A central field of application area is the use of the key push button in public transportation. Here, the push button is an element of the fallback level in the control system for road traffic signals. The modern NFC (Near Field Communication) technology replaces the mechanical lock. This provides for significant benefits in durability and convenience.

Wait for green with STOPPI

Concerning the design of traffic light installation, our youngest road users deserve special attention.

RTB focuses on a special concept for the safety of children. In the foreground of road safety activities for children is STOPPI, a charmingly lovable dog who captures the affection of children at first sight. STOPPI accompanies children and offers them optimum orientation.

Push button Model "Speech"

The push button Model "Speech" is used primarily for information at bus and train stops of public transport.

By activating the button, the user can retrieve information that can be freely defined by the respective suppliers. The additional acoustic information primarily help blind and visually impaired persons to navigate in crowded places.

The innovative LOC.id-system offers blind and visually impaired people additional comfort at stops.



STOPPI's important messages

- Be fully aware of dangers!
- Don't let yourself be distracted, always be attentive!
- Never simply walk across the street; cross over to the other side only if the light is green!



Push buttons: Intelligent combination

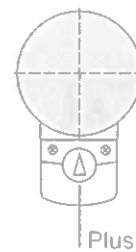
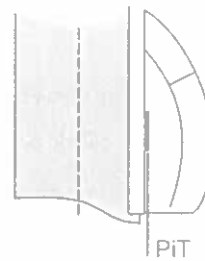
The combination of an acoustic system and request button offers a wide range of benefits, especially when a traffic light is properly equipped to effectively assist the blind.

Push button type PiT

With the push button type PiT, the orientation signal is actuated via the central electronics of the acoustic unit. Users simultaneously hear the orientation signal from the loudspeaker and the push button, so that it is even easier to find the traffic light mast.

Push button type Plus

With the push button type Plus, the vibration element of the push button is controlled by the electronics of the acoustic unit. This development makes it possible to further reduce the cost of a traffic light.





DIFFERENT than the OTHERS!

This is the premise we work on. We want to attract your attention with innovative strength, the highest quality and an excellent service. User-friendliness of our products and customer orientation are most important for us. We are doing everything for a reliable, partner-like cooperation.

Drawing on many years of experience, RTB develops, produces and sells innovative solutions for road traffic. In addition to supplemental equipment for traffic light signal systems, radar and laser systems for speed reduction and certified traffic data recording systems, our product range also includes parking ticket machines, innovative systems for electromobility and effective parking lot management.

image source: www.fotolia.de



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