



A full spectrum of sensing and signaling products for protection, detection, and safety



- SWITCH PRODUCTS
- SAFETY & SIGNAL MATS
- SENSING EDGES
- SENSING BUMPERS
- SAFETY INTERFACE MODULES
- LIGHT CURTAINS
- CUSTOM DESIGNS
- SAFETY INTERLOCKS



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B-Series Light Curtains

Full-featured and sophisticated
Self-contained, wires directly to machine or controller
UL / CE Listed



pg. 3

B-Series Perimeter Guards

Available with 2, 3 or 4 beams
Operating distance of up to 30 meters



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B-Series Master/Slave Guards

Full-featured and sophisticated
Self-contained, wires directly to machine or controller
UL / CE Listed



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Hard-Guard Enclosed Light Curtain

Suitable for indoor or outdoor applications
Impervious to water, dust, dirt, and oil



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Light Curtain Accessories

Cable, brackets, floor stands and mirrors for installation
Laser alignment tool and programming unit for set up



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Safety Interface Modules (SIM)

Self-monitoring and control reliable
Choice of NEMA enclosure or DIN rail mounting



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How-to-Order

Complete step-by-step instructions for picking out the right model and the right accessories for your application.

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B-SERIES LIGHT CURTAINS



The B-Series Safety Light Curtains are full-featured, microprocessor-controlled units. Special capabilities include beam blanking and a flexible interface that is compatible with common safety relay units, controllers (SIM), and fail-safe PLC's. A wide range of sizes and resolutions are available.

The B-Series emitter and receiver pair, by themselves, constitutes a complete light curtain system, which provides two redundant solid state PNP type outputs and is a type 4 safety device in accordance with EN 61496-1. These outputs can be interfaced directly into the machine control circuit, provided that the circuit is compatible with PNP type outputs, (i.e. safety relays, emergency stop relay packages, fail-safe PLC's, etc.).

Features & Benefits

- 2-unit system does not require a controller
- Easily interfaces with external devices
- Redundant fail-safe PNP outputs
- Beam blanking capability
- Rugged one piece extruded aluminum housing
- EN 61496-1 type 4 design, suitable for the most dangerous machines
- UL listed, CE certified and marked

General Specifications

Detection Capabilities	14 mm, 30 mm, 70 mm
Operating Distance	6 M (14 mm units) 15 M (30 mm & 70 mm units)
Curtain Lengths	up to 1.6 M (6 ft.)
Safety Outputs	2 X PNP (Fail-Safe) 500 mA @ 24 VDC maximum
Response Time	<18 ms
Effective Aperture Angle	± 2 degrees
Operating Temperature	0 to 50°C (32 to 122°F)
Cross Section	36 mm X 45 mm
Weight (each unit)	200 g (7 oz.) per 100 mm
Wavelength	880 nm
Radiation Intensity	Class 1 LED Product (IEC 60825-1)
Enclosure Rating	IP65

B-Series Models

30 mm Resolution		14 mm Resolution		70 mm Resolution	
Length	P/N	Length	P/N	Length	P/N
208 mm (8 in.)	0901	1408 mm (56 in.)	0909	208 mm (8 in.)	0912
308 mm (12 in.)	0902	1608 mm (64 in.)	0910	308 mm (12 in.)	0913
408 mm (16 in.)	0903	1808 mm (72 in.)	0911	408 mm (16 in.)	0914
608 mm (24 in.)	0904			608 mm (24 in.)	0915
808 mm (32 in.)	0905			808 mm (32 in.)	0916
908 mm (36 in.)	0906			908 mm (36 in.)	0917
1008 mm (40 in.)	0907			1008 mm (40 in.)	0918
1208 mm (48 in.)	0908			1208 mm (48 in.)	0919

Explanation of Terminology

EN 61496-1 Type 4 Design - This is an international safety standard with particular requirements for equipment using active optoelectronic protective devices. It is the highest level of the most stringent standard in the world, acceptable and suitable for the most dangerous machines.

Beam Blanking - Beam blanking allows selected areas of the sensing field to be disabled. This is useful in applications where fixed objects such as work piece supports protrude through the light curtain and interrupt one or more beams.

Fixed Blanking - Specific beams are programmed to be obstructed and, consequently, disabled.

Floating Blanking - An obstruction can move or 'float' within the detection zone without generating a stop signal.

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B-SERIES PERIMETER GUARDS



Tapeswitch Type B2, B3, & B4 Perimeter Guards are designed for safety and security applications. They are used to protect hazardous areas such as automated work cells and to monitor access or traffic in secure locations. The difference between models is the beam spacing.

These photoelectric devices provide the same high level category 4 safety integrity as the B-Series light curtains. To simplify installation, the emitter and receiver pair make up a self-contained system which is capable of safety functions without additional equipment.

Features & Benefits

- Available with 2,3 or 4 beams
- 2-unit system does not require a controller
- Easily interfaces with external devices
- Redundant fail-safe PNP outputs
- Rugged one piece extruded aluminum housing
- EN 61496-1 (Type 4)
- UL listed

General Specifications

Detection Capabilities	B2 (2 beam) 500 mm (19.7 in.) P/N 0930 B3 (3 beam) 400 mm (15.7 in.) P/N 0929 B4 (4 beam) 300 mm (11.8 in.) P/N 0928
Operating Distance	0.5 M to 30 M (1.6 ft. to 98 ft.)
Curtain Lengths	B2: 680 mm (26.8 in.) B3: 980 mm (38.6 in.) B4: 1080 mm (42.5 in.)
Safety Outputs	2 X PNP (fail-safe) 500 mA @ 24 VDC maximum
Response Time	<18 ms
Effective Aperture Angle	± 2 degrees
Operating Temperature	0 to 50°C (32 to 122°F)
Cross Section	36 mm X 45 mm
Weight (each unit)	300 g plus 200 g (7 oz.) per 100 mm of curtain
Wavelength	880 nm
Radiation Intensity	Class 1 LED Product (IEC 60825-1)
Enclosure Rating	IP65

Explanation of Terminology

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B-SERIES MASTER/SLAVE GUARDS



The B-Series master/slave system is a cascading light curtain guarding system, which offers a solution for those applications that require detection on two planes from one point. It consists of a maximum of two slave units connected to either a basic or multi-beam master system, which are offered in defined detection ranges in 14 mm (24 beams per 200 mm curtain), 30 mm (12 beams per 200 mm curtain), or 70 mm (4 beams per 200 mm curtain) in sizes from 200 -1800 mm increments. Master/slave units can be configured to a 144 beam maximum. Other features include beam blanking capabilities, control unit options, light curtain sizes and detection capabilities can be mixed to provide the exact solution for your guarding application requirements, Certain restrictions apply.

Features & Benefits

- 2-unit system does not require a controller
- Easily interfaces with external devices
- Redundant fail-safe PNP outputs
- Beam blanking capability
- Rugged one piece extruded aluminum housing
- EN 61496-1 type 4 design, suitable for the most dangerous machines
- UL listed, CE certified and marked

General Specifications

Detection Capabilities	14 mm, 30 mm, 70 mm
Operating Distance	6 M (14 mm units) 15 M (30 mm & 70 mm units)
Curtain Lengths	up to 1.6 M (6 ft.)
Safety Outputs	2 X PNP (Fail-Safe) 500 mA @ 24 VDC maximum
Response Time	<18 ms
Effective Aperture Angle	± 2 degrees
Operating Temperature	0 to 50°C (32 to 122°F)
Cross Section	36 mm X 45 mm
Weight (each unit)	200 g (7 oz.) per 100 mm
Wavelength	880 nm
Radiation Intensity	Class 1 LED Product (IEC 60825-1)
Enclosure Rating	IP65

Explanation of Terminology

EN 61496-1 Type 4 Design - This is an international safety standard with particular requirements for equipment using active optoelectronic protective devices. It is the highest level of the most stringent standard in the world, acceptable and suitable for the most dangerous machines.

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HARD-GUARD LIGHT CURTAINS

The Hard-Guard Light Curtain is designed for harsh industrial applications. It is available in either a tough transparent acrylic housing or a rugged aluminum enclosure. Protected against water (including wash down), dust, dirt, oil, and many solvents, it is ideal for heavy industrial applications, food processing, or outdoor safety and security systems.

The Hard-Guard system includes a full featured light curtain and a matching controller. It easily interfaces with a wide range of machine or security controls. Consult factory application engineer for more assistance with your application.

Features & Benefits

- Protected against water, dust, dirt, and oil
- Choice of acrylic and aluminum enclosure
- Optional internal heating element
- Easy access for maintenance and repair
- Wide range of sizes and resolutions
- Fully-assembled for easy installation



Hard-Guard with acrylic enclosure



Hard-Guard with aluminum enclosure

Applications

- Harsh industrial environments
- Food processing operations
- Vehicle or personnel entry and exit control
- Outdoor perimeter guarding or gatekeeping
- Intruder detection

General Specifications

Detection Capabilities	14 mm (1/2 in.), 30 mm (1-3/16 in.), 70 mm (2-3/4 in.)
Operating Distance	6 M (14 mm), 13 M (30 mm & 70 mm)
Curtain Lengths	14 mm (8 lengths 8 in. - 48 in.) 30 mm (9 lengths 8 in. - 56 in.) 70 mm (7 lengths 24 in. - 72 in.)
Safety Outputs	2 x PNP (fail-safe) 500 mA @ 24 VDC maximum
Response Time	<18 ms
Operating Temperature	0 to 50°C (32 to 122°F)
Enclosure Rating	IP65

The Hard-Guard Light Curtain is a built-to-order product. Contact the factory for more information and for help with your application.

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B-SERIES LIGHT CURTAIN ACCESSORIES

Cable Assemblies

Cable assemblies are used to connect the B-Series sensing units to a controller or machine. The emitter has a 5-wire cable and the receiver has an 8-wire cable. One end of each cable has a keyed quick-disconnect connector and the other end is unterminated. The cables are IP68 rated, and UL and CSA recognized. Order cables separately.

Cable Assemblies			Cable Assemblies		
		P/N			P/N
Emitter Cable, 15 ft.	5 Conductor	0972	Receiver Cable, 15 ft.	8 Conductor	0974
Emitter Cable, 30 ft.	5 Conductor	0973	Receiver Cable, 30 ft.	8 Conductor	9775
Emitter Cable, 98 ft.	5 Conductor	0976	Receiver Cable, 98 ft.	8 Conductor	0977



Mounting Brackets

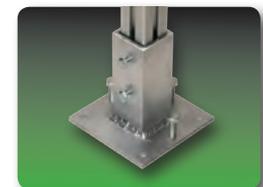
Mounting brackets are supplied with the B-Series sensing units. The brackets can be oriented to accommodate most installation requirements. They are designed to fit most commonly available structural framing systems.

Optional swivel, clamping, and vibration-damping brackets are also available.



Floor Stands (Part No. 0956)

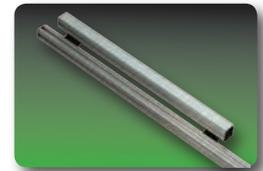
Floor stands are constructed from extruded aluminum. They are 5 feet tall with a steel base for permanently affixing to the floor. The base has adjustment hardware to assist in fine tuning the optical alignment of the light curtains. All of the necessary hardware is provided with the floor stands to allow easy attachment to the mounting brackets provided with the B-Series sensing units. Order floor stands separately.



Mirror Assemblies

Mirror assemblies are used to change the direction of the emitter beams, allowing one light curtain to protect more than one side of a guarded area. They are provided with two pivot brackets for easy alignment. All of the necessary hardware is provided to allow attachment to floor stands. The actual length of the mirror is 4 inches (100 mm) larger than the active curtain length (sensing area) to facilitate a wide tolerance for height alignment. Order mirror assemblies separately.

Curtain Length	Mirror Length	P/N	Curtain Length	Mirror Length	P/N
308 mm (12 in.)	408 mm (16 in.)	0961	1108 mm (40 in.)	1108 mm (44 in.)	0966
408 mm (16 in.)	508 mm (20 in.)	0962	1208 mm (48 in.)	1308 mm (52 in.)	0967
608 mm (24 in.)	708 mm (28 in.)	0963	1408 mm (56 in.)	1508 mm (60 in.)	0968
808 mm (32 in.)	908 mm (36 in.)	0964			



Blanking Programming unit

The blanking function allows selected areas of the sensing field to be disabled. This is useful for those applications in which objects, such as work piece supports protrude through the curtain. The B-Series light curtains are capable of being blanked for fixed and floating blanking.

The beam blanking function is set up using the BPU Programming unit. This device is used to teach the sensing unit when fixed blanking or floating blanking is required. One programming unit can be used to program any number of light curtains.

Two versions are available. For the B-SERIES light curtain model number **BPU-2 (Part No. 0953)** is required for light curtains with a serial number of A07 or less. **BPU-4 (Part No. 0753)** is required for light curtains with a serial number of D02 or higher.



Laser Alignment Tool (Part No. 0956)

The laser alignment tool is an accessory which can be used in conjunction with all B-Series light curtains. It provides a visual indication of the alignment of the sensing units and is extremely useful in aiding the installation of the light curtains over long operating ranges.



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SAFETY INTERFACE MODULES (SIM)

All Tapeswitch safety interface controllers (SIM) are compatible with the B-Series light curtains. The emitter and receiver pair, by themselves, constitutes a complete light curtain system, which provides two redundant solid state PNP outputs. Consult factory for correct series for your application. These outputs can be interfaced directly into a machine control circuit, provided that the circuitry is compatible with PNP type outputs supplied from the light curtain's, (i.e. safety relays, emergency stop relay packages, fail-safe PLC's, etc.)

Care should be taken in selecting a proper interface to ensure that the interface is compatible with PNP type outputs. In some applications the light curtain's output is not suitable for the machine control circuit and thus an intermediate relay package/interface unit, such as those below must be used.

SAFETY INTERFACE MODULES (SIM)

Tapeswitch offers a variety of interface and control modules which are compatible with all B-Series systems and the machine control. **All Tapeswitch interface control units are self-monitored and control reliable.** All units perform the switching of the machine circuit using positively-guided safety relays and have a minimum of two safety outputs excluding PCU/1 which has OSSD pair outputs. Several interface units are available which offer options for configuring the input power source, mounting package and type of electrical interface.

PCU/1 Control Unit (Part No. 0400)

This controller allows for the connection, control, and streamlining of multiple safety devices with programmable logic control functions, such as safety sensors and signals such as light curtains, safety photocells, e-stops, safety mats, sensing edges, sensing bumpers, two-hand controls, magnetic or mechanical switches at a CAT 4 SIL CL3 PLe safety level. The easy to use software allows for multiple functions and logic controls and has a configurable memory a list of input and output objects for a user friendly interface. It is USB capable for connection to the most common industrial Fieldbus systems for diagnostics and data communication. The stand alone controller has 8 input, 2 OSSD pairs, 4 test outputs, 2 digital signaling outputs, 2 inputs for restart, and 24 connectors, plus several different expansion units for additional inputs, outputs, and signaling and connectors plus additional safety relays.



BSRSA Interface Controller (Part No. 0950)

The BSRSA Interface Controller is a self-contained unit within a metal enclosure. It is intended to be wall mounted and has four double knockouts capable of accepting standard 1/2 inch or 3/4 inch conduit.

The BSRSA is ideal for end user and OEM applications or for retrofitting existing machines. It will accept input power sources of either 110/240 VAC or 24 VDC and provides the necessary power to the sensing unit emitter and receiver while monitoring the output signals.

The BSRSA provides two safety outputs which follow the state of the light curtain, and AUTOMATICALLY reset to the "on" state once an obstruction is removed from the light curtain. Upon startup, power up, loss of power/power resumption, a fault lockout condition is triggered. In this case, a front panel key or remote reset switch must be activated.

The BSRSA Controller provides a lockout contact which will be closed during normal operation and will open only when one of the above-mentioned lockout conditions occur. Both the high power AC input and low power DC control voltage are internally fused. The safety output contacts are also fused.



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SAFETY INTERFACE MODULES (SIM)

BSRUA-2 Interface Controller (Part No. 0951)

The BSRUA-2 Controller is a DIN rail mount unit capable of interfacing up to two light Curtain sensing units. It will accept an input power source of 110/240 VAC or 24 VDC and provides the necessary power to the light curtain sensing unit emitter and receiver.

The two safety outputs follow the state of the light curtain and AUTOMATICALLY resume the “on” state once an obstruction is removed.

There is no operator intervention required and no operator power up sequence necessary. The unit contains status and diagnostic indicators.

The BSRUA-2 can be used for applications where up to two areas of a machine must be protected and the desired machine control is the same regardless of which sensing unit (light curtain) has been obstructed. It can also be used in applications where multi-side protection is necessary and conventional use of mirrors is impractical.



SRUB Interface Controller (Part No. 0952)

The SRUB Controller is an economical, DIN rail mount unit. It operates from 24 VDC and is able to be field configured for either AUTOMATIC or MANUAL reset. In the automatic mode, the two safety outputs follow the status of the light curtain. In this mode no operator intervention or operator power up sequence is necessary. In the manual mode the two safety outputs will go to the “off” state once the light curtain is obstructed. The outputs will remain in the off state until an external (user supplied) reset switch is activated.

The SRUB is perfect for machines with an existing +24 VDC control voltage. The small size along with the economical price make it ideal for OEM applications.



PRSX/4 Expansion Module (Part No. 0486)

Tapeswitch model PRSX/4 Expansion Module is designed to use with Tapeswitch controllers. The expansion module can be used for both sensing controllers and light curtain controllers. The PRSX/4 Expansion module increases the number of normally open force guided contacts by 4. An additional normally closed feedback relay is also provided. Several expansion modules may be connected to one controller.



SRUS Interface Controller (Part No. 0949)

The SRUS Controller is an economical, compact DIN rail mount unit. It operates from 24 VDC and is able to be field configured for either AUTOMATIC or MANUAL reset. In the automatic mode, the two safety outputs follow the status of the light curtain. In this mode no operator intervention or operator power up sequence is necessary. In the manual mode the two safety outputs will go to the “off” state once the light curtain is obstructed. The outputs will remain in the “off” state until an external (user supplied) reset switch is activated.

The SRUS is perfect for machines with an existing +24 VDC control voltage. The small size along with the economical price make it ideal for OEM applications.



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SAFETY INTERFACE MODULES (SIM)

GDC1 24VDC Power Supply (Part No. 0953)

The GDC1 is a compact switching mode power supply and is specifically intended for use with the B-Series light curtain and SRUB, and SRUS interface unit. It provides a regulated 24 VDC supply to the safety equipment (i.e. safety relay and light curtain) from a wide range of AC input voltages.

It comes with adapter clips to allow it to be DIN rail mounted. The output voltage is adjustable to account for a variety of loading conditions.



BC-Series Blanking Interface Controllers

The BC-Series of interface controllers combines the capability of the BSRSA controller and BPU programming unit in a single package. It is packaged in a wall-mounted metal enclosure. The blanking function allows selected areas of the sensing field to be disabled. This is useful for those applications in which objects, such as workplace supports, protrude through the light curtain.

Two versions are available. For the B-Series light curtain model number **BC-1 (Part No. 0959)** is required for light curtains with a serial number of A07 or less. **BC-4 (Part No. 0759)** is required for light curtains with a serial number of D02 or higher.



HOW TO ORDER

Follow the procedure below, selecting the proper component at each step.

1. **Select a Sensing Unit** - Sensing units come in pairs; one emitter and one receiver.
 - a. Determine the resolution needed (14 mm, 30 mm, or 70 mm).
 - b. Determine the coverage length needed (200 mm to 1800 mm).
 - c. Select the appropriate Sensing Unit from the table.

B-Series Models (High Risk Applications CAT4)

30 mm Resolution		14 mm Resolution		70 mm Resolution	
Length	P/N	Length	P/N	Length	P/N
208 mm (8 in.)	0901	208 mm (8 in.)	0912	808 mm (32 in.)	0921
308 mm (12 in.)	0902	308 mm (12 in.)	0913	908 mm (36 in.)	0922
408 mm (16 in.)	0903	408 mm (16 in.)	0914	1008 mm (40 in.)	0923
608 mm (24 in.)	0904	608 mm (24 in.)	0915	1208 mm (48 in.)	0924
808 mm (32 in.)	0905	808 mm (32 in.)	0916	1408 mm (56 in.)	0925
908 mm (36 in.)	0906	908 mm (36 in.)	0917	1608 mm (64 in.)	0926
1008 mm (40 in.)	0907	1008 mm (40 in.)	0918	1808 mm (72 in.)	0927
1208 mm (48 in.)	0908	1208 mm (48 in.)	0919		
1408 mm (56 in.)	0909				
1608 mm (64 in.)	0910				
1808 mm (72 in.)	0911				

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2. **Select Cable Assemblies** - One each for emitter and receiver. Cable length can be adjusted in the field.
- Determine minimum cable length required for emitter unit.
 - Determine minimum cable length required for receiver unit.
 - Select the one emitter cable and one receiver cable from the table.

Cable Assemblies		P/N
Emitter Cable, 15 ft.	5 Conductor	0972
Emitter Cable, 30 ft.	5 Conductor	0973
Emitter Cable, 98 ft.	5 Conductor	0976
Receiver Cable, 15 ft.	8 Conductor	0974
Receiver Cable, 30 ft.	8 Conductor	9975
Receiver Cable, 98 ft.	8 Conductor	0977

3. **Select Mounting Brackets** - This is optional. Sensing units come with standard mounting brackets.
- Determine if standard mounting brackets will suffice. Consult your Tapeswitch application specialist.
 - If required, select optional swivel, clamping, or vibration-damping mounting brackets.

4. **Select Floor Stands** - This is optional.
- Determine if floor stands are required. Consult your Tapeswitch application specialist.
 - If required, select the number of floor stands required.

5. **Select Mirror Assemblies** - This is optional.
- Determine if mirrors are required. Consult your Tapeswitch application specialist.
 - If required, select the appropriate mirror type from the table.

Curtain Length	Mirror Length	P/N	Curtain Length	Mirror Length	P/N
208 mm (8 in.)	308 mm	0960	908 mm (36 in.)	1008 mm	0965
308 mm (12 in.)	408 mm	0961	1108 mm (40 in.)	1208 mm	0966
408 mm (16 in.)	508 mm	0962	1208 mm (48 in.)	1308 mm	0967
608 mm (24 in.)	708 mm	0963	1408 mm (56 in.)	1508 mm	0968
808 mm (32 in.)	908 mm	0964			

6. **Select Interface Controller** - This is optional, but recommended.
- Determine if an interface controller is required. Consult your Tapeswitch application specialist.
 - If required, select an interface controller: PCU/1, BSRSA, BSRUA-2, SRUB, SRUS, or BC-1.
See Page 11

7. **Select Power Supply** - This is optional
- If an SRUB or SRUS Interface Controller has been selected, determine if you need a power supply.
 - If required, select the GDC1 Power Supply. **(Part No. 0953)**

8. **Select Additional Accessories** - These optional accessories provide useful functions for installing, maintaining and troubleshooting.

Programming Unit - Used to program fixed and floating blanking on the sensing units.

Laser Alignment Tool - Provides a visual indication of alignment between the emitting and receiving unit. Simplifies alignment, especially when the units are far apart.

Contact factory application engineer for additional assistance

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Some of the industries we serve.



MANUFACTURING

MILITARY



MINING

MEDICAL



TRANSPORTATION

ENTERTAINMENT



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