

COMPACT*plus* CPRT-m

Type 4 transceiver with integrated muting and override functions



compact

flexible

powerful



CPRT muting – effective protection for personnel, while maintaining optimum flow of materials

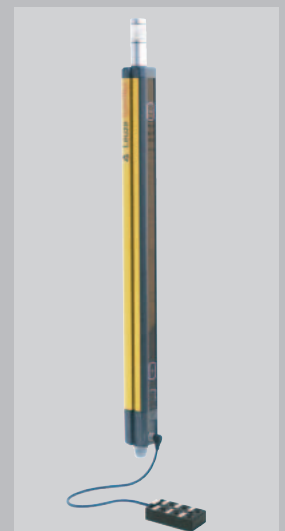
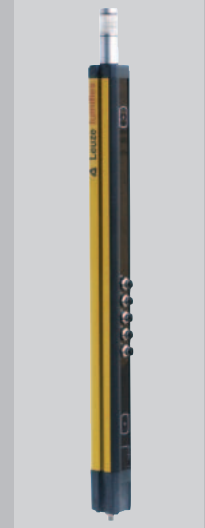
Productivity and safety are among the key requirements of automated manufacturing systems. In materials handling technology, safety light barriers with muting functionality ensure the full time protection of personnel, without holding up the passage of materials. A particularly flexible and economic solution is to be seen in the new CPRT-m type 4 multibeam safety light barrier of the COMPACTplus series, which incorporates both muting and override functionality.

All the sensors that are required for distinguishing between persons and materials, as well as the operating and display elements, can be directly connected to the light barrier on site. Various output versions, such as semiconductors, relays or integrated safety bus interfaces, may be selected; these facilitate the optimum integration of the equipment in any kind of control system.

There's muting and muting – you can see for yourself.

The benefits at a glance

- Integrated evaluation unit, no external control devices required
- Choice between semiconductor output, relay output or safety bus interface
- Electrical wiring only on one side of the conveyor lines, as based on the transceiver principle (transmitter and receiver in a single housing)
- Several types of muting can be easily selected by means of DIP switches, no PC is needed
- Integrated, monitored override function in accordance with the most recent safety requirements (IEC 61496-1: 2001 FDIS), for the safe release of material after switching off
- Muting sensors, start button and i indicators can be connected directly to the transceiver by way of an integrated or external sensor connection module
- Integrated LED indicator (optional)
- Possibility of connecting emergency stop units or safety switches to an additional safety circuit
- Wide range mounting and sensor accessories
- Multiscan function, based on multiple polling of the light axes, together with two transmission channels for maximum availability
- Plug-in parameter module with saved device configuration, making it quick and easy to replace components





You can choose the safety interface that suits you best

- Local interface as a sensor connection module or multi function socket
- 24V DC / 0.5A transistor with cable screw or plug
- 230V AC / 24V DC / 4A relay with cable screwing or plug
- safety bus interfaces AS-i Safety or PROFI-safe *)

CPRT-m, the right muting function for any application

The basic functions can easily be defined on the plug-in parameter module by means of 6 DIP switches:

- Restart interlock / device monitoring
- Type of muting
 - 2-sensor parallel muting
 - 4-sensor parallel muting (e.g. with reflection light scanners)
 - 4-sensor sequential muting

CPRT-m application-specific setting of parameters and diagnosis by means of the SafetyLab PC software:

- Sensor signal filter times, permissible time differences
- Further types of muting
- Status signal links and outputs
- Startup testing
- Muting indicator monitoring on/off
- Additional safety circuit (two-channel or one-channel)

Plug-in parameter module makes it easy to replace components

Even with complex parameter settings, it is as easy as it possibly could be to replace components. All you have to do is to plug the parameter module, which contains all the settings, into an identical spare device.

Simple diagnosis by means of:

- the LED display
- the 7-segment display
- status signals (which can be parameterized)
- the SafetyLab PC software

Main technical specifications

Power supply	24 V DC \pm 20 %
Safety level	Type 4 as defined by IEC/EN 61496-1, -2
Beam distance	500 mm
Number of beams	2

*) in preparation

