

JANUS

Type 4 safety light curtains and grids, robust and integrated.
The range comprises Janus M with Muting and Janus J without Muting function.

The Janus range includes models TRX with one active element and one passive retro-reflecting element which does not require electrical connections.

Janus M and M TRX are also available with built-in muting sensors.

Main features:

- Set-up of each function can be done through main connector
No need for configuration via software
- Built-in main safety functions
- 2 safety PNP static outputs
- Automatic or manual Start/Restart
- Feedback input for controlling external relays (EDM)
- Built-in Muting function on models MI
- Built-in Muting sensors on models ML and MT
- Integrated Override with two selectable operating modes
- Muting Time-out 30 sec, 90 min or infinite
- Input Muting enable available on models M TRX
- M12 and M23 connectors
- IP 65 protection rate
- Operating temperature range -10 to 55 °C
- Cross section 50 x 60 mm

Special models complying with "Directive ATEX" 94/9/EC - Dust Zone 22 - Gas Zone 2 available on request.



Safety level:

TYPE 4

SIL 3 – SILCL 3
PL e – Cat. 4



THE JANUS RANGE

JANUS M and JANUS M TRX with built-in Muting function

- Janus MI and MI TRX with connectors for external sensors of any type
- Janus MI TRXL with single connector for all connections, including external sensors
- Janus ML and ML TRX and Janus MT and MT TRX featuring an innovative horizontal arm system with built-in Muting photoelectric sensors, prewired and prealigned
- Janus ML TRX G and Janus MT TRX G (Glass) with special built-in muting sensors to optimize correct and consistent detection of glass and transparent materials in general.

JANUS MI

- Dedicated connections for external Muting sensors of any type through M12 connectors
- Muting logics both two-way entry/exit (2 – 4 sensors) and one-way exit only (2 sensors)
- Protected height range 310 to 1810 mm, resolution 40 and 90 mm (310 to 1210 for resolution 30 mm)
- 4 types of detection:
 - Resolution 30 - 40 mm for hand detection
 - Resolution 90 mm for detection of the body in a dangerous area
 - 2 - 3 - 4 beams for detection of the body in access monitoring
- Max range 16 m (60 m for Long Range versions).

**JANUS ML**

Janus ML has an original 2-horizontal arms system – one for the Emitter and one for the Receiver – with built-in Muting photoelectric sensors, prewired and prealigned.

- One-way Muting logics, exit only
- 2 and 3 beams for detection of the body in access monitoring
- Max range 2,5 m (2 m ML_S2)
- Optoelectronic Muting sensors with 2 crossed beams (models ML) and parallel beams (models ML_S2).

**JANUS MT**

Janus MT has an original 4-horizontal arms system – 2 for the Emitter and 2 for the Receiver – with built-in Muting photoelectric sensors, prewired and prealigned.

- Two-way Muting logics, entry/exit
- 2 and 3 beams for detection of the body in access monitoring
- Max range 2,5 m (2 m MT_S4)
- Optoelectronic Muting sensors with 2 crossed beams (models MT) and 4 parallel beams (models MT_S4).

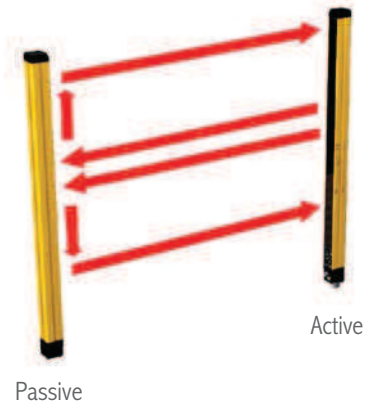


JANUS

JANUS MI TRX, MI TRXL

Janus MI TRX and MI TRXL consist of one active emitter/receiver element and one retro-reflecting passive element which does not need electrical connections.

- Models MI TRX with M12 front connectors for external Muting sensors with 2 or 4-sensor logics for both two-way entry/exit (2 – 4 sensors) and one-way (2 sensors) exit only.
- Models MI TRXL with single connector M23 with 2-sensor logics for two-way entry/exit (2 sensors)
- 2 - 3 - 4 beams for detection of the body in access monitoring
- Max range 6 m.



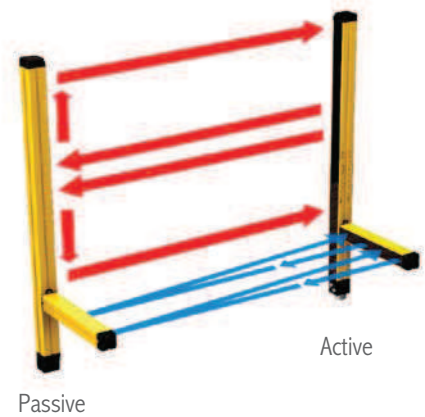
JANUS ML TRX, ML TRX G

Janus ML TRX and ML TRX G, 2 or 3 beams for access monitoring have an original 2-horizontal arms system – one for active side and one for passive side – with built-in Muting photoelectric sensors, prewired and prealigned.

Models ML TRX G are designed to ensure reliable detection of glass and other transparent materials.

Both light grid and Muting sensors consist of one active emitter/receiver element and one retro-reflecting passive element which does not need electrical connections.

- One-way Muting logics, exit only
- 2 and 3 beams for detection of the body in access monitoring
- Max range 3,5 m models TRX (2 m TRX G)
- Optoelectronic Muting sensors with 2 parallel beams.



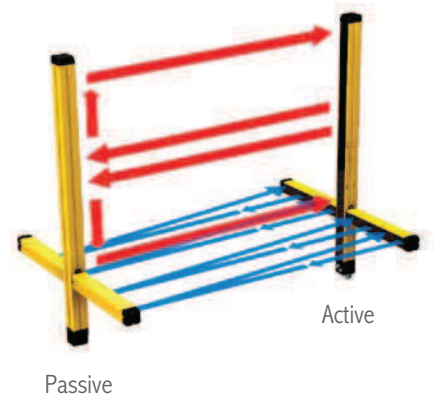
JANUS MT TRX, MT TRX G

Janus MT TRX and MT TRX G, 2 or 3 beams for access monitoring have an original 4-horizontal arms device (2 for active side and 2 for passive side) with built-in Muting photoelectric sensors, prewired and prealigned.

Models MT TRX G are designed to ensure reliable detection of glass and other transparent materials.

Both light grid and Muting sensors consist of one active sensor emitter/receiver and one retro-reflecting passive sensor which does not need electrical connections.

- Two-way Muting logics, entry/exit
- 2 and 3 beams for detection of the body in access monitoring
- Max range 3,5 m models TRX (2 m TRX G)
- Optoelectronic Muting sensors with 4 parallel beams.



Models ML, ML TRX and ML TRX G and MT, MT TRX and MT TRX G are quick and easy to install. Also, they are complying with regulatory requirements on Muting sensor geometry and all other safety-related parameters, as per IEC TS 62046 and other current standards.

JANUS MM TRX [NEW PRODUCT]

Janus MM TRX is a modular system which permits to add the pre-wired muting arms to the light curtain column in order to get either a ML TRX (one way) or a MT TRX (entry/exit) model with a few simple steps.

SL TRX and ST TRX are the pre-wired muting arms and can be ordered separately.

Janus MM TRX can also be used with external Muting sensors, with 2 or 4 sensors logic.

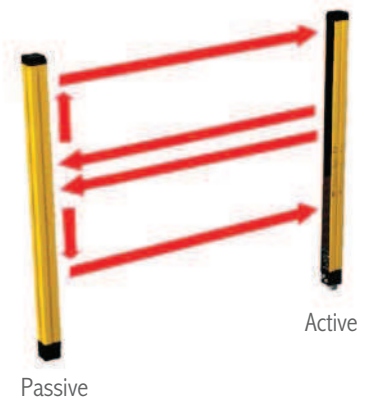
- Muting logics for models MM TRX are one-way (only exit), together with SL TRX, and two-way (entry/exit) together with SL TRX and ST TRX
- Max range 6 m (3,5 m when fitted with SL TRX and ST TRX).

**JANUS J, JANUS J TRX, JANUS J TRX L**

These models, without Muting function, have the same dimensional and electrical features of M versions with Muting.

They include:

- Janus J, 2 - 3 - 4 beams
- Janus J Long Range, 60 m, models with 2 - 3 - 4 beams and models with 40 mm resolution and protected height range 610 to 1210 mm
- Janus J TRX and J TRXL with 2 - 3 - 4 beams, consist of one active emitter/receiver element and one retro-reflecting passive element which does not need electrical connections.

**JANUS J LRH M12 [NEW PRODUCT]**

Janus J LRH M12 is an extra long range model that can work up to 80 meters.

These special versions integrate laser pointers to aid the light grids alignment.

For several sides protection with total distance of over 40 m, in order to facilitate the alignment it is recommended the use of the floor mounting columns FMC-SB, featuring independent adjustable mirrors (see the accessories page).

- 2 - 3 - 4 beams for detection of the body in access monitoring
- Max range up to 80 meters
- M12 5-pole connector for the emitter and M12 8-pole connector for the receiver.

JANUS MJB Connection Box for JANUS Light grids

Connection boxes Janus MJB are accessory devices designed for quick, reliable connection of Janus light grids and to ensure that major operating controls needed for operation are available in the guarded area.

- Illuminated Restart pushbutton with green led for safety output status signaling
- Key selector switch for Override function
- Muting-on indicator light
- Dip-switch for light grid functions configuration
- 2 guided-contacts safety relays operated and controlled by the light grid
- Versions without restart and override controls for connection to Janus J light grids without Muting
- Special models complying with "Directive ATEX" 94/9/EC - Dust Zone 22 - Gas Zone 2 available on request.



Please contact Reer for technical support about the connection of Janus light grids to the most common safety buses