

## Datasheet



### RS-C-025-1920-MOD

#### SPECIAL FEATURES

- + Especially high resolution of 2.5 mm
- + Virtually dot-shaped beam geometry arranged on a single optical plane
- + Extremely high measurement rate:  
Parallel beam > 260 measurements/sec.
- + Modbus TCP-Server with access to all measurement data from each measurement
- + Integrated dual port Ethernet switch
- + Modbus TCP interface for parametrization and diagnosis
- + Ethernet interface serves an additional AutoSend channel for fastest process data transferring
- + Transparent objects can be evaluated at full measurement rate
- + Connection port for rotary encoder
- + Standard industry M12 plug connectors
- + Corrosion-resistant and easy to clean plastic housing

#### DATA TABLE

##### Technical features

Technology	Emitter / receiver
Purpose	Measuring automation light curtain with real time fieldbus connection
Beam spacing	2.5 mm
No. of diodes	768
Monitoring height	1920 mm
Operation range	0 .. 2500 mm
Measurement cycle	3,84 ms with parallel beam if all beams are activated

##### Electrical data

Protection class	III
Supply voltage	18 .. 30 VDC
Power consumption	approx. 735 mA (@24 VDC), no external loads
Initialization time	approx. 30s

##### Interfaces

Switch output	2 x PNP, NPN or PP, each 100 mA max., Overload and short-circuit protected
Data interface	Ethernet 10/100 MBit, Modbus TCP + TCP/UDP, integrated dual port switch, 2 x M12 jack / 4-pin / D-coded

##### Mechanical data

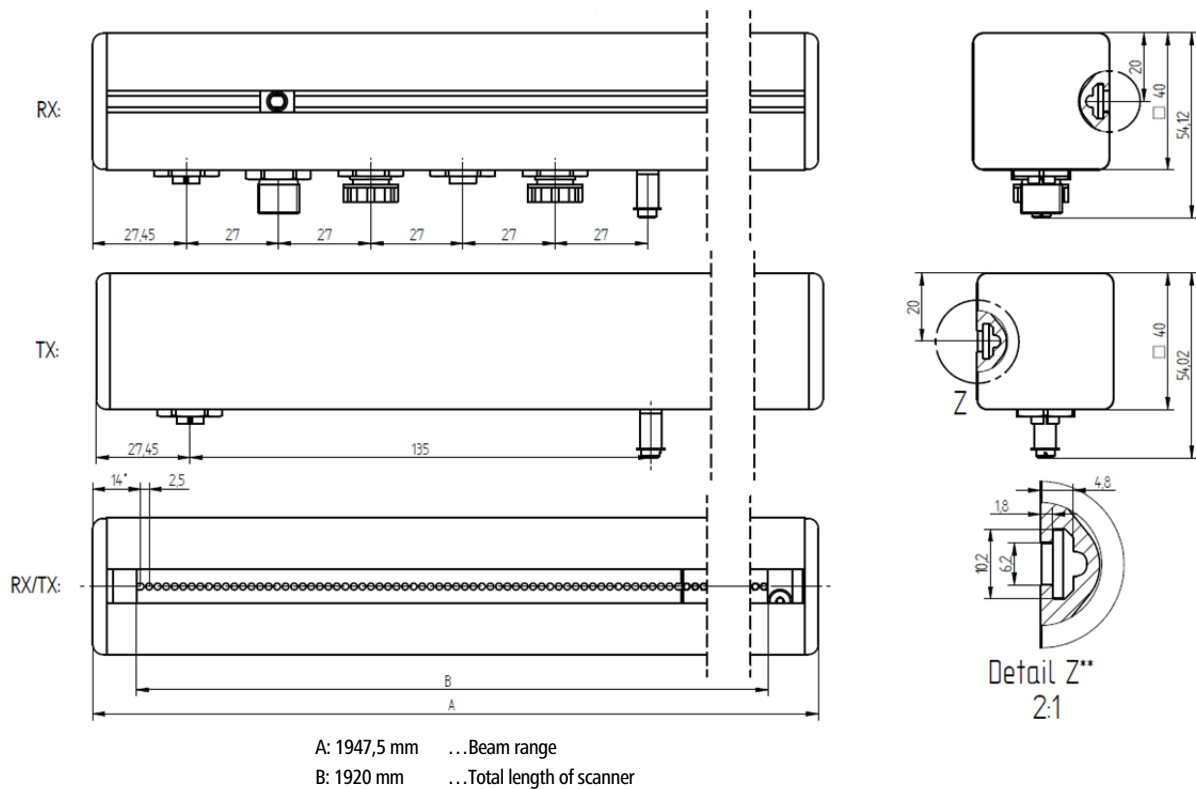
Construction	Frame: fibre-reinforced polyamide / Window: transparent polyamide
Dimensions	40 x 40 x 1947,5 mm; Additional space required in the plug area, see dimensioned drawing
Weight	T: 2,02 kg   R: 2,34 kg
Environmental rating	IP67

##### Environment

EMC	according to EN 60947-5-2
Ambient temperature	operation: -30°C...+55°C / storage: -40°C...+70°C
Vibration resistance / shock proof	according to EN 60947-5-2

## PRACTICAL BENEFITS

- + Higher conveyor belt speeds
  - + Increased object throughput
  - + Smaller beam geometry and layout of the beams on a single optical level permit more precise object localization
- + More detail-rich object mapper via analogue object evaluation
  - + The integrated dual switch permits linear wiring. This reduces the amount of cabling work and no external switch is required.
  - + rotary encoder interface allows positional data linking w/o PLC



## PLUGS AND SIGNALS

- X1** Synchronization and power supply to emitter unit, M12 jack (female) / 8-pin / X-coded CAT6A
- X2** Power supply input, switching outputs / encoder inputs, trigger input, M12 plug (male) / 5-pin / A-coded
- X3** Power supply output to downstream RapidoScan, service interface, trigger output, M12 jack / 5-pin / A-coded
- X4** Modbus TCP, Port-1, M12 jack / 4-pin / D-coded
- X5** Modbus TCP, Port-2, M12 jack / 4-pin / D-coded
- X6** FE connection, M4 screw connection

