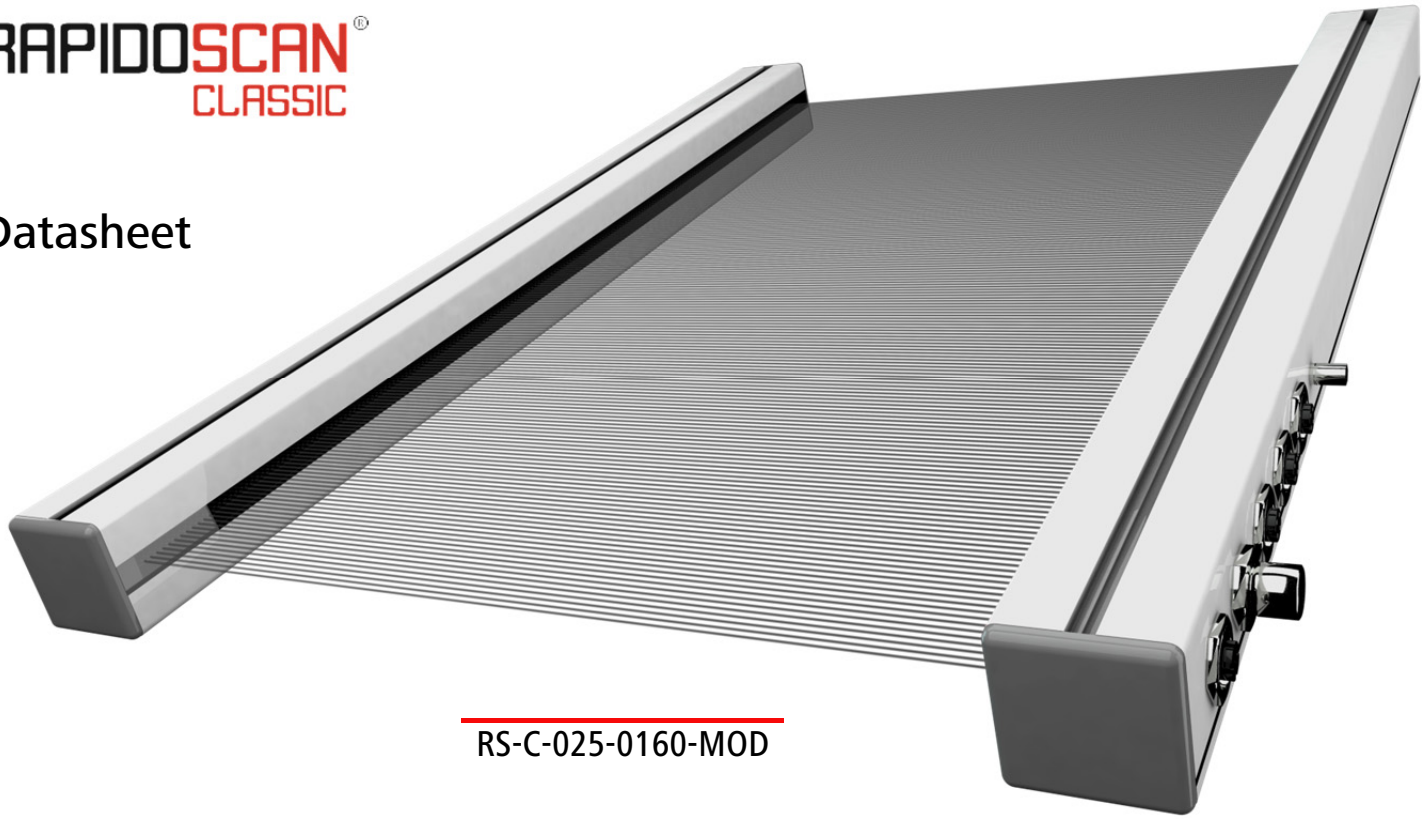
RAPIDOSCAN® CLASSIC

Datasheet



RS-C-025-0160-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 > 3125 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	64
Monitoring height	160 mm
Operation range	0…2500 mm
Measurement cycle	0,32 ms with parallel beam if all beams are activated

Electrical data

Protection class	III
Supply voltage	18…30 VDC
Power consumption	approx. 350 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 187,5 mm; Additional space required in the plug area, see dimensioned drawing
Weight	T: 0,25 kg | R: 0,36 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

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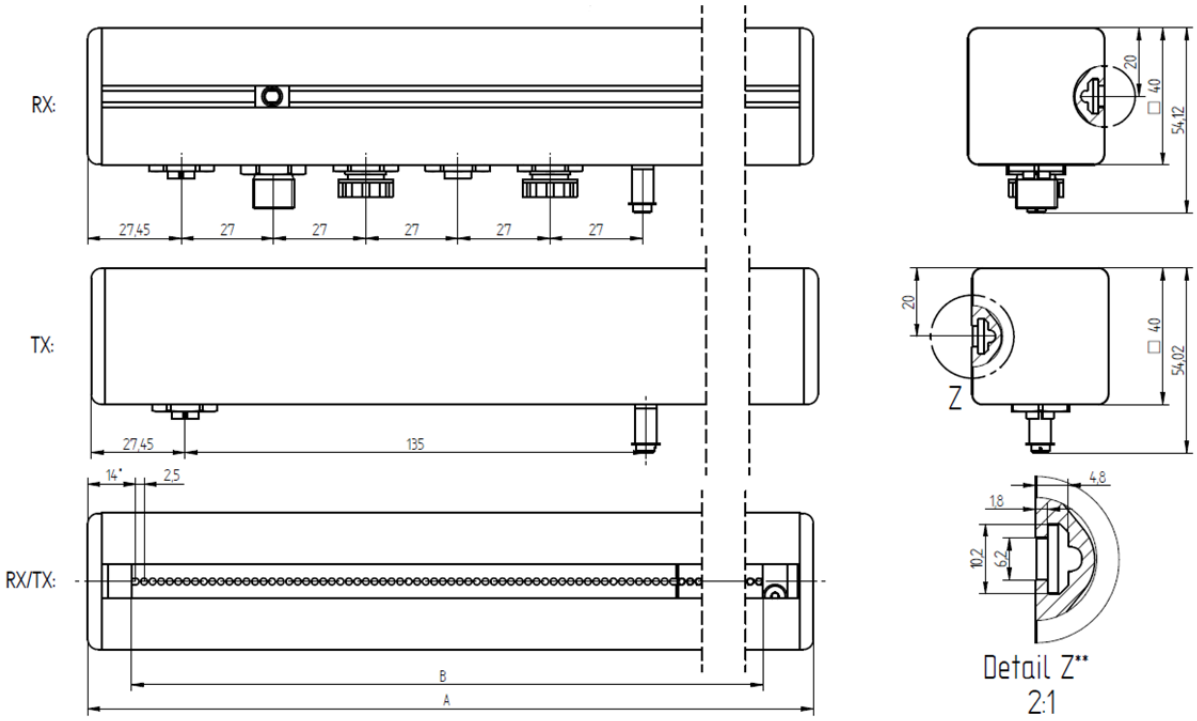
PRACTICAL BENEFITS

+ 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



A: 187,5 mm …Beam range
B: 160 mm …Total length of scanner

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