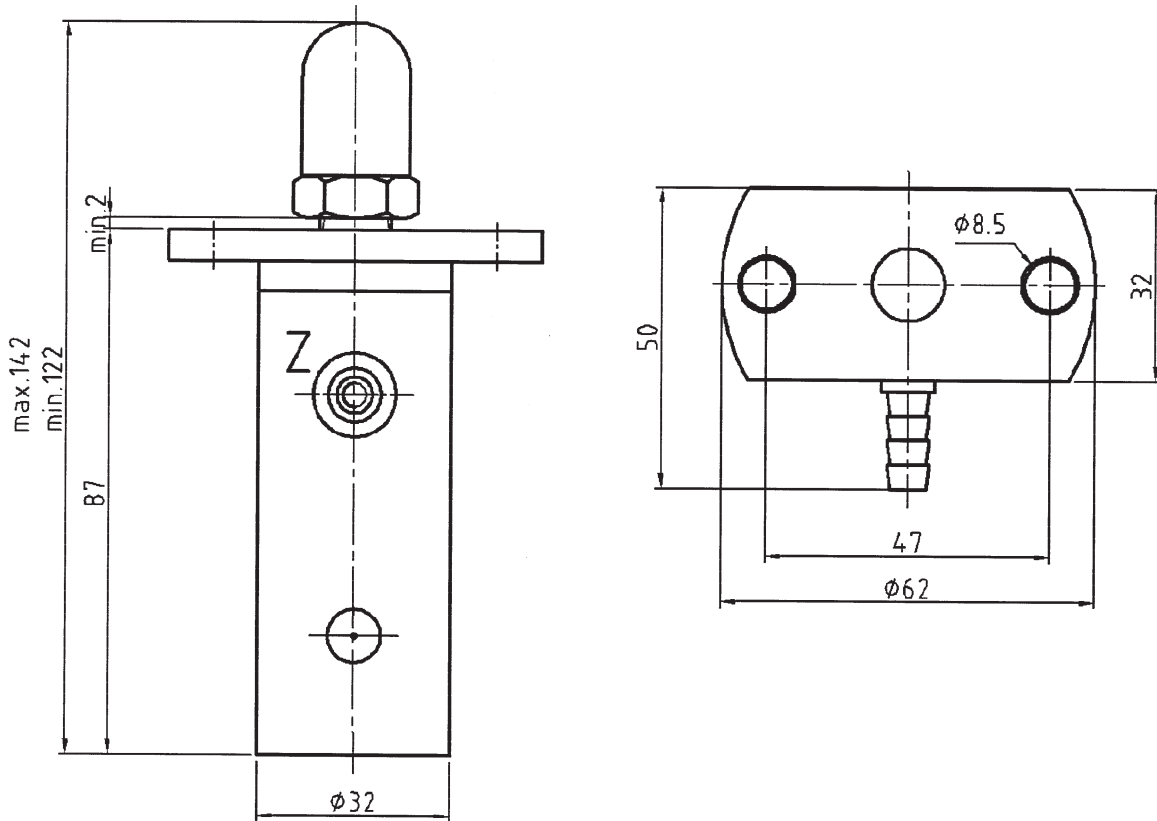


Type 530 Z / 531 Z

Pneumatic Cylinder



530 Z - 20 x 4 KS A12
with release spring
lift 20 mm / 4 bar

Datas:

Material: Plastic black
Cylinder rod: Steel with shift cam
Connector: Plastic tube

Connecting to Light-Barrier by reducing from 6 to 4 mm
Lift: 20 mm
Max. Pressure: 4 bar

Function:

Resting position without air:

- Cylinder rod out
- Clutch latched off
- Section standing

With air:

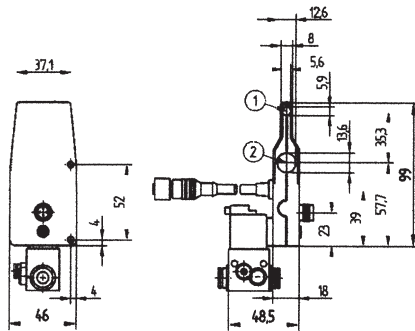
- Cylinder rod in
- Clutch latched in
- Section running



Type 530 Light Barrier

Reflex Sensors for Roller Conveyor Systems

All dimensions in mm (1 mm = 0,03937 Inch)



1 = Transmitter Diode
2 = Receiver Diode

- Integrated Logic
- Electronic Background Suppression
- Scaled switching Distance Adjuster
- Fully Encapsulated

Technical Data

Optical Data

| | |
|--------------------------|----------------|
| Range | 550 mm |
| Potentiometer min | 220...270 mm |
| Potentiometer centre | 320...400 mm |
| Potentiometer max | 550...630 mm |
| Switching Hysteresis | < 15% |
| Light Source | Infrared Light |
| Wave Length | 880nm |
| Service Life (TU = +25°) | 100000 h |
| max. Ambient Light | 10000 Lux |
| Opening Angle | 5 ° |

Electrical Data

| | |
|---|-------------|
| Supply Voltage | 10..30 V DC |
| Current Consumption Sensor (U _b = 24V) | < 30 mA |
| Switching Frequency | 100 Hz |
| Response Time | 5 ms |
| Temperature Drift | < 10 % |
| Temperature Range | -15...50° C |
| Switching Outputs | 1 |
| Switching Output Voltage Drop | < 0,8 V |
| PNP Switching Output/Switching Current | 200 mA |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Overload Protection | yes |
| Logic | yes |
| Block Discharge | yes |
| Valve Control | yes |

Mechanical Data

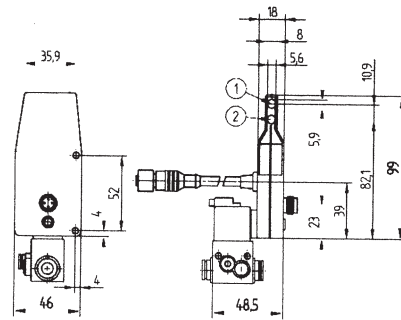
| | |
|--------------------|---------|
| Housing | Plastic |
| Full Encapsulation | yes |
| Protection Mode | IP 65 |
| Connection | M 12x1 |
| Cable Length | 88 cm |

Pneumatic Solenoid Valve Unit

| | |
|-----------------------------|---------------|
| Valve No. | K04 |
| Supply Voltage Valve | 19,2...28,8 V |
| Current Consumption Valve | 86 mA |
| Operating Pressure | 0,5...7 bar |
| Nominal Width | 0,8 mm |
| Nominal flow rate 1-> 2 | 20 NL/min |
| Nominal flow rate 2-> 3 | 100 NL/min |
| Supply line connector pipe | 2x 8x1 |
| Working line connector pipe | 4x1 |
| Switching function | NC |

Retro-Reflex Sensors for Conveyor Systems

All dimensions in mm (1 mm = 0,03937 Inch)



1 = Transmitter Diode
2 = Receiver Diode

- Integrated Logic
- Recognition of high-gloss and jet black objects
- Large Working Range
- Fully Encapsulated

Technical Data

Optical Data

| | |
|----------------------------|-----------|
| Range | 6500 mm |
| Reference Reflector | RQ100BA |
| Max. Distance on Reflector | 100 mm |
| Switching Hysteresis | < 15% |
| Light Source | Red Light |
| Polarization Filter | yes |
| Service Life (T= +25° C) | 100000 h |
| max. Ambient Light | 10000 Lux |
| Opening Angle | 5 ° |

Electrical Data

| | |
|--|-------------|
| Supply Voltage | 18..30 V DC |
| Current Consumption Sensor (U _b =24V) | < 25 mA |
| Switching Frequency | 100 Hz |
| Response Time | 5 ms |
| Temperature Drift | < 10 % |
| Temperature Range | -15...50° C |
| Switching Outputs | 1 |
| Switching Output Voltage Drop | < 0,8 V |
| PNP Switching Output/Switching Current | 200 mA |
| Short Circuit Protection | Yes |
| Reverse Polarity Protection | Yes |
| Overload Protection | Yes |
| Logic | Yes |
| Block Discharge | Yes |
| Valve Control | Yes |

Mechanical Data

| | |
|--------------------|---------|
| Housing | Plastic |
| Full Encapsulation | yes |
| Protection Mode | IP 65 |
| Connection | M 12x1 |
| Cable Length | 88 cm |

Pneumatic Solenoid Valve Unit

| | |
|-----------------------------|---------------|
| Valve No. | K04 |
| Supply Voltage Valve | 19,2...28,8 V |
| Current Consumption Valve | 86 mA |
| Operating Pressure | 0,5...7 bar |
| Nominal Width | 0,8 mm |
| Nominal flow rate 1-> 2 | 20 NL/min |
| Nominal flow rate 2-> 3 | 100 NL/min |
| Supply line connector pipe | 2x 8x1 |
| Working line connector pipe | 4x1 |
| Switching function | NC |



Rollex Drive System

Basics

The Rollex Drive System has been developed for use of Zero-Pressure Systems. It operates with all 24V Drive-Systems from our Product Range.

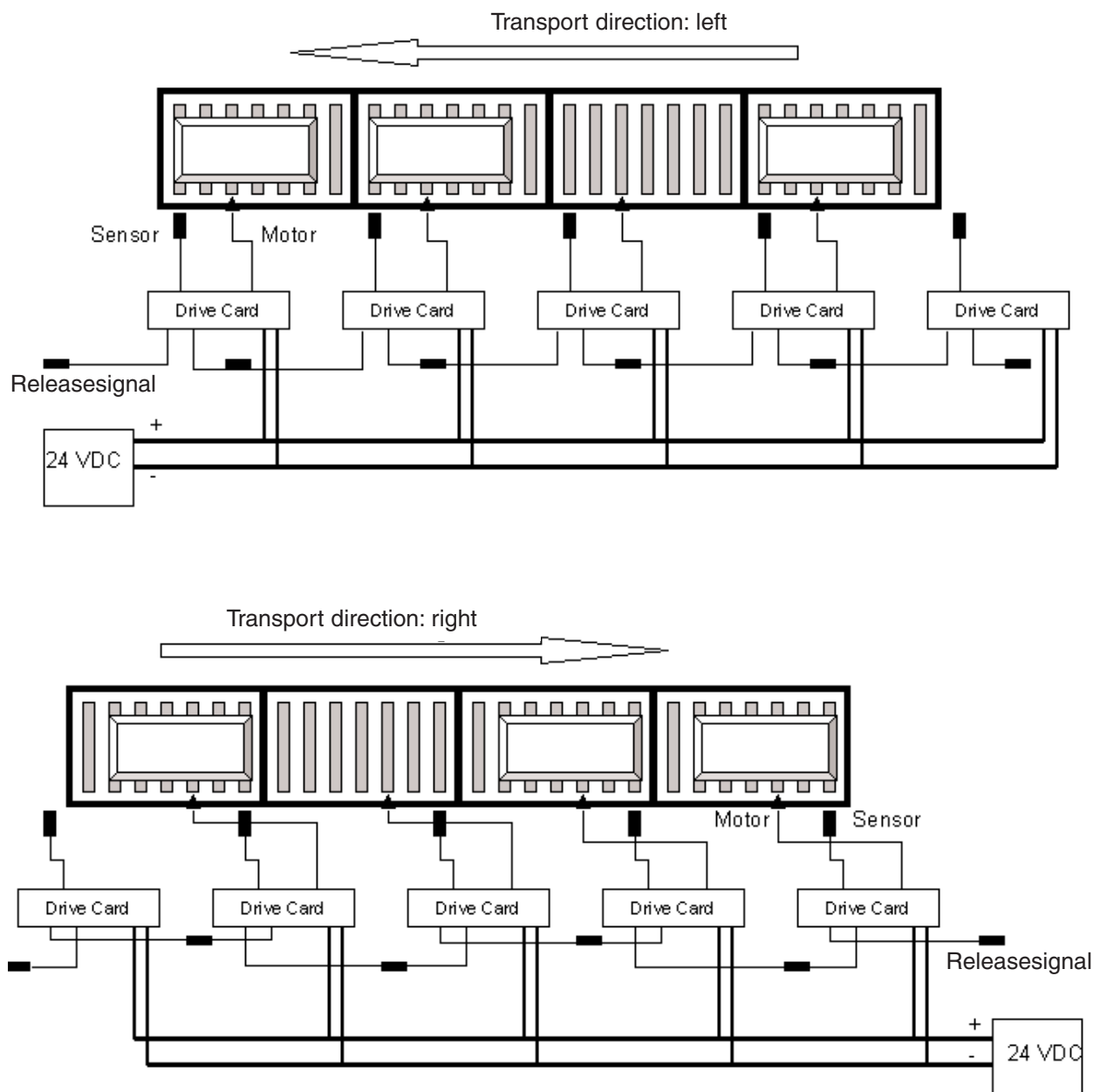
The Zero-Pressure Switch has an integrated logic, that communicates with the switches of the pre- and after-sections.

The basic advantage is that the drive is only switched on, if the loaded good runs in the section, and is switched off, if it leaves the section.

With the sectional switching of the electro magnetic clutch system (Type 536E) a break can be activated to stop the goods fast and smooth.

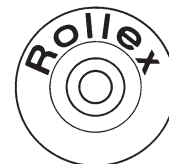
The Rollex Drive System is activated by a Light-Barrier.

Basic plan of the Zero-Pressure System:



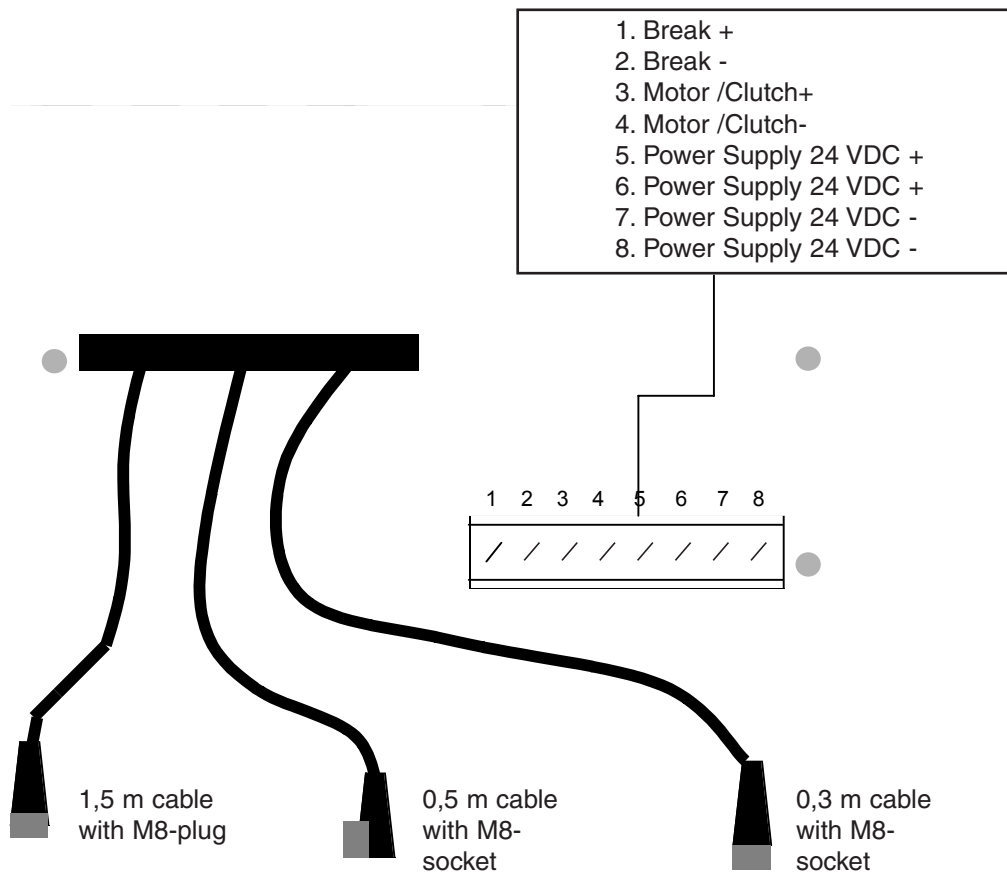
Rollex Drive System

Basics



Plug-in of this Control Board will happen by connecting the M8-Clamp to the pre- and after-section. The Power Supply can be made separately. For power supply through the Card all 14 to 20 Cards have to be feed new, re the drive concept.

Plan of the Card:



Technical Datas:

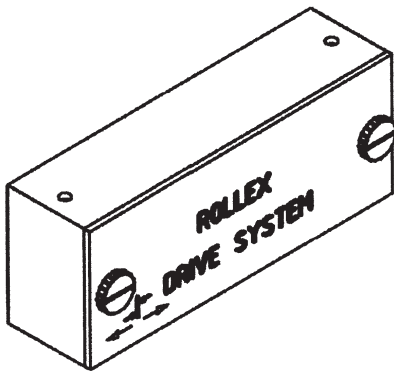
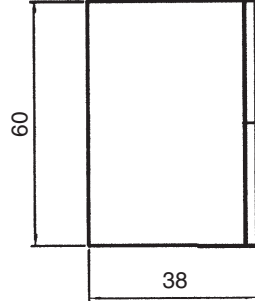
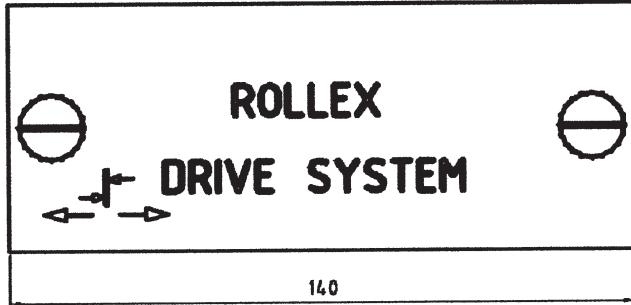
| | | |
|-----------------|------------------|---|
| Power Supply | 24 V DC +/- 10% | |
| Temperature | + 5° C to +40° C | |
| Fuse | 3,15 A | |
| Current Limiter | Motor/Clutch | Starting Current 1,8A / 200 ms Continuous Load 1,8 A |
| | Break | Starting Current 1,8A / 200 ms Continuous Load 1,2 A |



Rollex Drive System

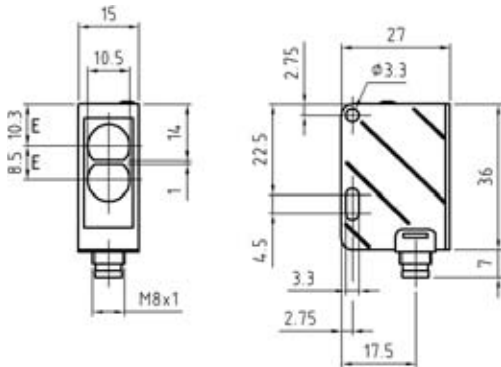
Construction Advice

The Rollex Drive System Card is protected by a plastic box. This box can be mounted to the profile by the customer with M4 screws.

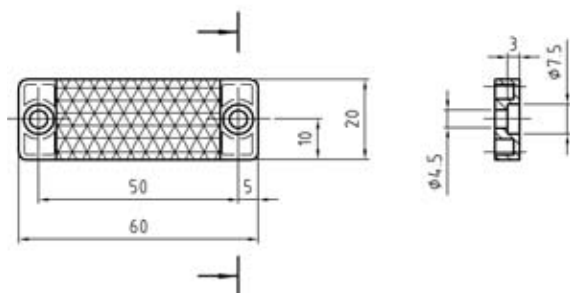


- ← = connection to pre section
- = connection light-barrier
- = connection after section

Light-Barrier:



Reflector:



Bracket for light-barrier

