

ACR™ ACCESS CARD READER



Toptech Systems' Access Card Reader

Toptech's Access Card Reader (ACR) is a rugged, multi-purpose, access control device. Equipped with a non-captive proximity card reader, the ACR can be used at either indoor or outdoor access control points. The ACR is designed to directly communicate with Terminal Automation Systems, such as Toptech's TMS.

ACR Applications

- Entrance and Exit Gates
- BOL Request Stations
- Indoor/Outdoor Access Control Areas

How is it Used?

The ACR becomes an integral component of the Terminal Automation System (TAS) by reading data from a proximity card. If the TAS is satisfied with the data, it will actuate the ACR's outputs to open a gate or door at the access point. Visual and audio indications at the ACR are actuated by the TAS as appropriate. Digital inputs at the ACR can also be monitored by the TAS.

Communications

Toptech's ACR communicates on a serial data link which can be either point-to-point or multi-dropped RS-232 or RS-485. The ACR communication port is intended to provide a communication link with TMS.

Features Summary

- Two Digital Inputs
- Two Digital Outputs
- Serial Communications RS-232 or RS-485 (2-wire or 4-wire)
- Communication Protocols: Brooks, Smith, Modbus/Daniels

Compliance Information

- UL/cUL Class 1, Division II, Groups C & D
- CENELEC EEx n IIB (Test Pending)
 - Complies with EMC Directive (89/336/EEC)
 - Complies with ATEX Directive (94/9/EEC)
- Type 4 Enclosure, IP54

Environmental

Ambient Operating Temperature Range
-40°F to 140°F (-40°C to 60°C)

Power Input

- AC Instrument Power: 85-240 VAC, 50 mA, 50-60 Hz
- DC Instrument Power: 18-28 VDC, 50 mA

Digital Inputs

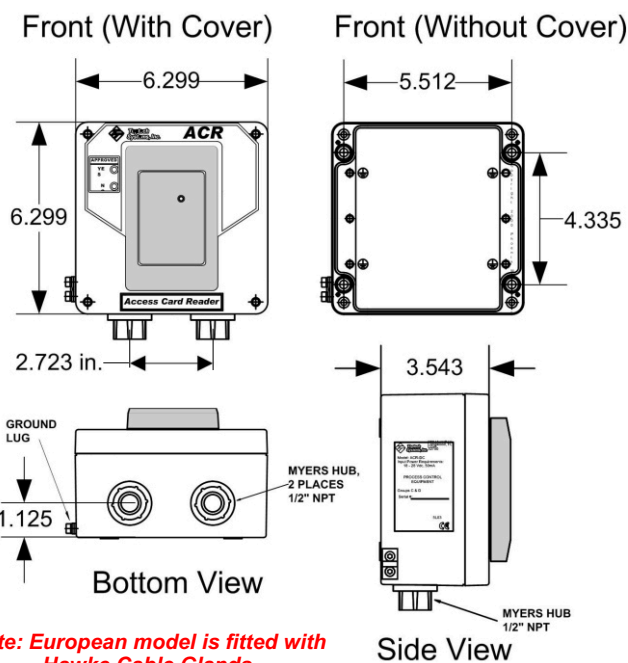
Two optically isolated DC inputs with an operating voltage range of 5-30 Vdc.

Digital Outputs

Two normally open, solid-state, photovoltaic relays are provided for general switching applications. These relays are limited to 100mA and may switch up to the following voltages:

- 400 Vdc (Peak), 100 mA Max
- 354 Vac (Peak), 100 mA Max

Physical



Note: European model is fitted with Hawke Cable Glands