MAGSTRIPE
READER CLOCK AND
DATA OUTPUT

CONSTRUCTION - METAL
Metal readers manufactured by Paxton Access are made from tough metal. The electronics are encapsulated in a waterproof resin and the read head is constructed from stainless steel making it suitable for external use. The reader is waterproof to IPX7. A backplate is available to provide extra strong fixing. This can also be used to provide fixing onto irregular or weak substrates.

CONSTRUCTION - PLASTIC
The housing is made from 20% glass filled Noryl. This is a very tough and inert plastic. The reader is potted, making it fully waterproof.

SUITABILITY
The readers may be used in harsh weather conditions as it is waterproof to IPX7. The read head is durable and rated at over 1,000,000 swipes, making it suitable for all applications. The superb aesthetics of the reader make it a clear choice for sites where aesthetics are important. The reader is popular with architects and specifiers.

FINISH
The reader comes in a satin chrome finish. This is hard wearing and suitable for the harshest conditions.

SPECIFICATIONS:
OUTPUT - Open collector (pulled up internally to 5v with a 560 Ohm resistor)
OUTPUT DRAIN - Max 20mA
WATER RESISTANCE - High IPX7
VANDAL RESISTANCE - High-mazak construction
DIMENSIONS - 34x89x34 (WxHxD)
WEIGHT (PACKAGED) - 340g (400g) approx
CABLE SUPPLIED - 5m
CABLE - 9 core screened, 7x0.15mm stranded.
OUTER DIAMETER - 4.6mm max
INSULATION THICKNESS - 0.45mm
SWIPES - >1,000,000
TEMPERATURE RANGE - -20 to +70 C
MEDIA SPEED - 125<vcard<1250mms-1
MEDIA ACCELERATION - a card max=500mms-32
MAGNETIC STRIPE COERCIVITY - 50<H<6000OE
MEDIA AMPLITUDE - Min=20%
TRACK READ - 2 as standard
MAGSTRIPE READER CLOCK AND DATA OUTPUT

TIMING DIAGRAM

- Colour
- Description
- Notes
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- Description
- Notes

Red
+5V d.c.
4.5 < VIN < 5.5
Connected internally to white

Black
0V
Connected internally to black

White
0V
Isolated from 0V

Screen
Reader case

Yellow
Data

Blue
Clock

Green
Green LED

Orange
Amber LED

Brown
Red LED

Mauve
Media detect/Arrow LED

CABLE DISTANCES
The drivers in the electronic circuitry allow for cables to control units to achieve distances of up to 150m. This needs to be verified by each manufacturer by their own control unit equipment.

Possible Applications for the Reader
Access Control connected to a TouchStar Evolution Door Controller
Access Control connected to a TouchStar TS2020 Terminal
Secondary Clocking connected to a TouchStar TS2020 Terminal

TouchStar Part No:
PP1-12V-SC
PP1-12V-SC
PP1-12V-SC