



SPECIFICATIONS	
OPERATING VOLTAGE	10-30 VDC
RIPPLE	≤10%
DIFFERENTIAL TRAVEL (HYSTERESIS)	3-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤1.8 V at 200 mA
OUTPUT FUNCTION	NORMALLY OPEN 3-WIRE DC SELF-CONTAINED
TTL COMPATIBLE	NO
SHORT-CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥220 mA
CONTINUOUS LOAD CURRENT	≤200 mA
OFF-STATE (LEAKAGE) CURRENT	<100 uA
NO-LOAD CURRENT	≤15 mA
TIME DELAY BEFORE AVAILABILITY	≤8 ms
POWER-ON EFFECT PROTECTION	PER IEC 947-5-2
REVERSE POLARITY PROTECTION	INCORPORATED
WIRE-BREAK PROTECTION	INCORPORATED
PROTECTION AGAINST TRANSIENTS	PER EN 60947-5-2
OPERATING TEMPERATURE (10% DRIFT)	-25°C to +70°C (-13°F to +158°F)
OPERATING TEMPERATURE (15% DRIFT)	-30°C to +85°C (-22°F to +185°F)
ENCLOSURE	MEETS NEMA 1, 3, 4, 6, 13 AND IEC IP67
SHOCK	30 g, 11 ms
VIBRATION	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
LED FUNCTION	RED: OUTPUT ENERGIZED
RATED OPERATING DISTANCE(Sn)	8 mm = .315" (NOMINAL)
SWITCHING FREQUENCY	2000 Hz
REPEATABILITY	≤2% of RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	NO

## NOTE PRELIMINARY **SPECIFICATIONS**

RELATED DOCUMENTS

## NOTES: 1. UPROX HAS WELD FIELD IMMUNITY, SENSOR IS SUITABLE FOR USE ON RESISTANCE MACHINES.

СВМ 09/03/99 REV DESCRIPTION ECO NO.

BRASS BARREL FINISH

2.

MATERIAL

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DSGN

3RD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGLES ±1°

 $.X \pm 0.02$ 

.XX ±0.01

.XXX ±0.005

ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY

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CBM

TURCK IAC High Technology Sensors and Automation Controls

DESCRIPTION

FILE: M1644140

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turck.com

Ni 8U-M12-AP6X-H1141

IDENTIFICATION NO. INCH [ MILLIMETER ]

DATE 09/03/99

NONE

SCALE

UNIT OF MEASUREMENT

DO NOT SCALE THIS DRAWING

M1644140

SHEET 1 OF 1

REV