



TRANSMISSIVE SENSORS

SURFACE-MOUNT

3
mm

Wide gap of 3 mm

Moisture sensitivity level (MSL) of 1
Surface-mount package
Rugged, single-piece construction

Output current of 1.5 mA

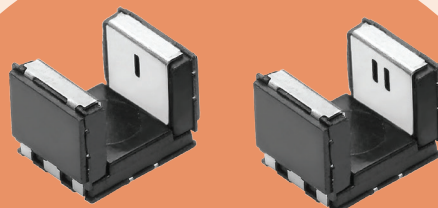
1.5
mA

14
µs

Rise time of 14 µs, typical

Deep slot for turn and push function

**Operating temperature
up to +85° C**



VT141P / VT142U



VT171P / VT172U

COMPETITIVE ADVANTAGE

- Package design ensures alignment of emitter and detector
- High photocurrent output allows lower forward current of emitter

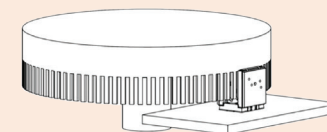


APPLICATIONS

- Latches
- Simple encoders
- Switches
- Motor speed and travel distance



Part Number	VT141P	VT142U	VT171P	VT172U
Single Channel	•		•	
Dual Channel		•		•
Slot Depth	2.8	2.8	4.5	4.5
L x W x H	5.5 mm x 4 mm x 4 mm		5.5 mm x 4 mm x 5.7 mm	
Function	Presence of object, determines speed of turn	Determines speed and direction of turn	Turn and push function, presence of object, determines speed of turn	Turn and push function, determines speed and direction of turn
Gap	3 mm			
Operating Temperature	-25 °C to +85 °C		-25 °C to +85 °C	
Output Current	1.5 m A at I _F = 15 mA			
On / Off Time	14 μs, 21 μs			



How it works: simple encoder drawings

