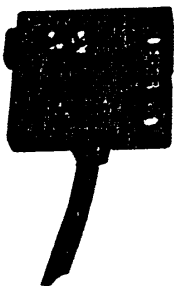


SEEKA

PHOTOSENSORS

19.5mm x 18mm x 3.5mm



UM SERIES

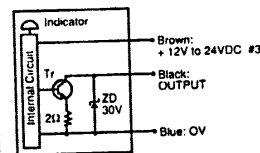
- Ultra-Miniature size: Three types: I (19.5x18x3.5mm), II (20.5x17mm), III (19.5x17.5x3.5mm)
- Throughbeam, diffuse or convergent beam
- Sensitivity adjustment option
- Response time 0.5ms
- IP64 sealed
- NPN 80mA open collector output
- Short circuit protected

TECHNICAL SPECIFICATIONS V-Suffix models=Adjustable sensitivity

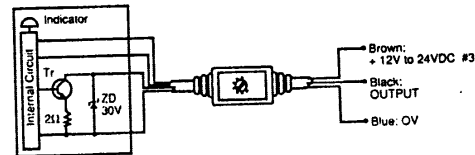
Type	UM T15DT	UM T15DTV	UM T50DT	UM T50DTV	UM T50DS	UM R3T	UM R3TV	UM R5T	UM R5TV	UM Z3SV
Function	Throughbeam					Diffuse				Convergent
Range(max)	15cm		50cm			0.2 to 3cm #1		0.2 to 5cm #1		0.2 to 3cm
Object Res.	Ø3mm (min) Opaque object									
Power Supply	24VDC ± 10% Max ripple # 2					12V to 24VDC ± 10% max ripple				
Current	TRNS	15mA				20	27	20	27	27
Cons.	RCVR	15mA	22mA	15mA	22mA	15mA	20mA	27mA	27mA	27mA
Output	NPN, 80mA, 30VDC (max) Open collector									
Operating Mode	Dark On					Light On				
Response Time	0.5ms (max)									
Light Source	Red LED (660nm)									
Indication	Red LED: Activated output, Green LED: Stability									
Sensitivity Adjustment	-	Yes	-	Yes	-	-	Yes	-	Yes	Yes
Connection	Transmitter: 0.1mm ² x2 (2m Black) Receiver: 0.1mm ² x3 (2m Grey)					0.1mm ² x3 (2m Black)				
Ambient Light	3,000 Lux (Maximum)									
Operating Temp	-25°C to +55°C									
Protection	IP64									
	#1 - 5x5cm White Paper					#2 - 12VDC Type available				

CONNECTION DIAGRAMS

Non Adjustable Types



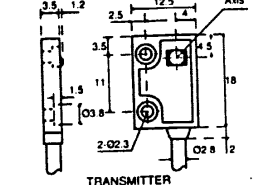
Adjustable Types



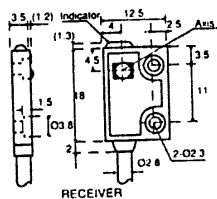
#3 Throughbeam Types 24VDC only
Throughbeam Transmitter: Brown + 24VDC, Blue 0

MODEL - UM-T50DT

MODEL - UM-T50DTV(#1)



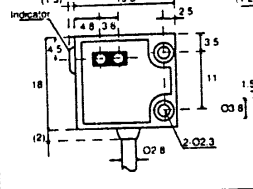
TRANSMITTER



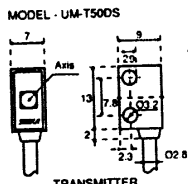
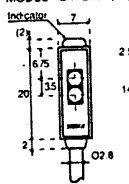
RECEIVER

MODEL - UM-R5T

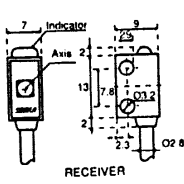
MODEL - UM-R5TV(#1)



MODEL - UM-Z3SV(#1)

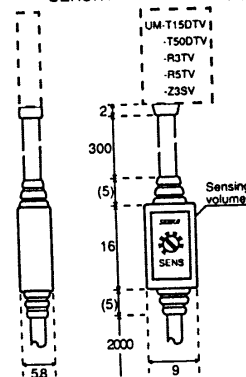


TRANSMITTER



RECEIVER

(#1) ADJUSTABLE SENSITIVITY MODELS (V)



Throughbeam types
Diffuse types
Convergent types

UM-T15DT
UM-R3T
UM-Z3SV

UM-T15DTV
UM-R3TV

UM-T50DT
UM-R5T

UM-T50DTV
UM-R5TV

UM-T50DS