24

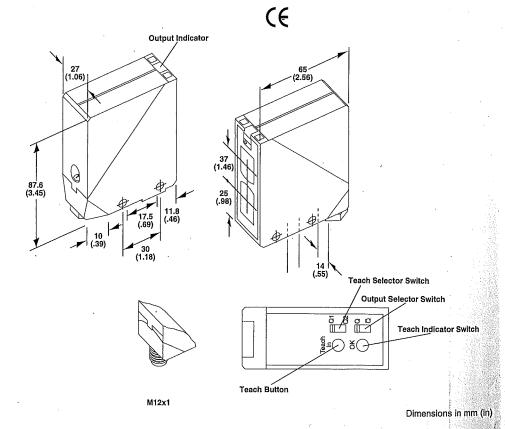
distance sensor



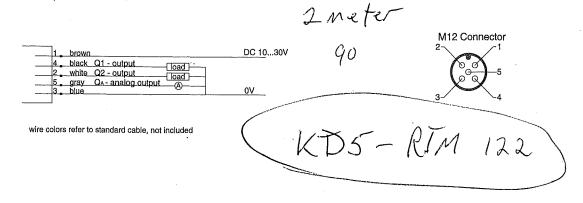
3 m (9.8 ft)

HIGHLIGHTS

- ► Rugged diecast metal housing
- ► Analog output
- ➤ Signal strength indicator
- ► Two switching outputs set with Teach-in
- ► Outputs short circuit protected
- ► Power supply reverse polarity protected
- ► Cable connections swivel 90° for easy installation
- ▶ Optional dust shield, snow shield, cooling plates



connection diagram



WTA24

distance sensor

W	TA 24 -P5201	250/10 cultivation	and Street Street Street	V			
Part Number			-P5401		P5501		
Sensing Range	1 011 504		1 011 505	412			
Light Spot Size	250350 mm (1014 in)		6001200 mm (2448 in)		1 011 515		
Angle of Divergence		48 mm (0.160.32 in)		1530 mm (0.61.2 in)		10003000 mm (40120 in	
Resolution (based on sensing re-	7°		2°		2050 mm (0.82 in)		
100 x 100 mm (4 x 4 in) Reproducibility (based on sensing distance, target 100 x 100 mm (4 x 4 in)	white (90%) grey (18%) black (6%) white (90%)	0.5% 0.5% 1.0%	white (90%) grey (18%) black (6%) white (90%)	1.0% 1.5% 2.0%	0.5° White (90%) grey (18%) black (6%)	2.0% 5.0% 4.0%	
Linearity (based on sensing range, target 100 x 100 mm (4 x 4 in)	grey (18%) black (6%) white (90%)	1.0% 1.5% 0.5%	grey (18%) black (6%) white (90%)	1.5% 2.5% 4.0%	white (90%) grey (18%) black (6%)	4.0% 10.0% 8.0%	
Accuracy (based on sensing distance, target 100 x 100 mm (4 x 4 in)	grey (18%) black (6%) white (90%) grey (18%)	1.0% 2.5% 1.5%	grey (18%) black (6%) white (90%)	2.0% 5.0% 3.0%	white (90%) grey (18%) black (6%)	2.0% 4.0% 10.0%	
Temperature Drift (based on sensing distance)	black (6%) 0.2 % / k	2.0% 4.0%	grey (18%) black (6%) 0.2 % / k	5.0% 8.0%	white (90%) grey (18%) black (6%)	5.5% 13.0% 10.0%	
Supply Voltage V _s (limit values)	LED, infrared, modulated, average service life 100,000 hours @ 25°C (0.2 % / k		
Current Consumption	1230 V DC						
lipple (within V _s tolerances)	≤ 100 mA						
witching Output Current	≤ 5 V peak-to-peak						
Witching Mode	Q1 and Q2						
utput Voltage	PNP, switchable, Q,	Q Q					
Itput Current Max.	HIGH = V _s - (≤ 2 V);	LOW = ≤ 2 V			· ·		
sponse Time / Switching Frequency	100 mA						
alog Output	≤ 5 ms/100 Hz				10 Hz		
closure Rating	420 mA (3 and 21 mA in capture range/R = 0 to 500 Ω)				≤ 50 ms/10 Hz		
bient Operating Temperature	II OTT NEIMA 6		0 :// 0 (0 300 (2)				
rage Temperature	-1455°C (7131°F)						
3	-2570°C (-13167°	F)					
ck / Vibration	IEC 801						
Protection Class	IEC 68-2-27/IEC 68-2-	6					
	Il Double Insulated						

