Reference: PH18CNR65PASA

Selected parameters SYSTEM Retro-reflective HOUSING M18 Square SENSING RANGE 6 ... 20 m CONNECTION Cable OUTPUT DC PNP MATERIAL Plastic Others SENSING RANGE 6,5 m HOUSING M18 (21 x 15 x 35 mm) MATERIAL ABS

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Photoelectrics
Retro-reflective
Type PH18CNR..., DC
• Miniature sensor range
• Range: 6.5 m
• Sensitivity adjustment by potentiometer
• Modulated, infraredlight 850 nm
• Supply voltage: 10 to 30 VDC
• Output: 100 mA, NPN or PNP, N.O & N.C.
• Degree of protection IP67, IP69K
• LED indication for output, stability and power ON
• Protection: reverse polarity, short circuit and transients
• Cable, plug and pigtail versions
• Excellent EMC performance
Product Description
Ordering Key
PH18CNR65PAM1SA
The PH18CNR... is part of a family of inexpensive general purpose retro-reflective sen- sors in industrial standard 18 mm cylindrical andsquare ASS housing.
The sensors are useful in applications where high- accuracy detection as well as small size is required.
Type Selection
Compact housing and high power LED for excellent performance-size ratio.
The potentiometer used for adjustment of the sensitivity makes the sensors highly flex- ible. The outputtype is NPN or PNP and the output switch- ing function is NO and NC.
Type
Housing style square
Housing size Housing material Housing type neutral Detection principle Sensing distance Output type

Output configuration Connection type Sensitive adjustment
Housing style RangeConnection Orderingno. Orderingno.
SnNPNPNP
Make & break switchingMake & break switching
M18 Square type 6.5 mCablePH 18 CNR 65 NASA PH 18 CNR 65 PASA M18 Square type 6.5 mPlug PH 18 CNR 65 NAM1SAPH 18 CNR 65 PAM1SA M18 Square type 6.5 mPigtail M12PH 18 CNR 65 NAT1SA PH 18 CNR 65 PAT1SA
Specifications according to EN60947-5-2
Rated operating distance (Sn)Up to 6.5 m,
reference target ER4
reflector " 80 mm
Blind zone 50 mm @ Sn max.
Sensitivity control Adjustable by potentiometer
Electrical adjustment210°
Mecanical adjustment240°
Adjustable distance to target50-650 cm
Temperature drift≤ 0.2%/ºC
Hysteresis (H)
(differential travel) ≤ 20%
Rated operational volt. (US) 10 to 30 VDC
(ripple included)
Ripple (Urpp) ≤ 10%
Output current
Continuous (Ie)≤ 100 mA
Short-time (I)≤ 100 mA
(max. load capacity 100 nF)
No load supply current (Io)≤ 25 mA @ 24 VDC
Minimum operational current (Im) 0.5 mA
OFF-state current (Ir) ≤ 100 µA
Voltage drop (Ud) ≤ 2.0 VDC @ 100 mA
Protection Short-circuit, reverse
polarity and transients
Light sourceLED, 850 nm
Light typeInfrared, modulated Sensing angle ± 2ºAmbient light 30.000 lux
Incandescent lamp
Light spot Diameter 0 164 mm @ 3.25 m
Operating frequency500 Hz
Response time
OFF-ON (tON)≤ 1.0 ms
ON-OFF (tOFF) ≤ 1.0 ms
Power ON delay (tv) ≤ 100 ms
Output function
Type NPN or PNP
Switching function NO and NC
Indication
Output ON LED, yellow
Signal stability and power ONLED, green